INDUSTRIAL WORLD

AND NATIONAL ECONOMIST.

DEVOTED TO HOME INDUSTRIES, SCIENCE, COMMERCE, FINANCE, INSURANCE, RAILROADS AND MINING.

Vol. III -No. 60.

THURSDAY, SEPTEMBER 1, 1881.

88 Per Annux.

THE:

Andustrial Morld

AND NATIONAL ECONOMIST.

PERSONNED DACK A WAFE.

TITLERIC NICHOLIS, GERF ALMANAGER. TORONTO.

SUBSCRIBERS

In Casala and the United States. r -tfree, in advance, per year, Threedollare.

Remittances should be made by registered letter or money order payable to F. Nicholla, Macager, INDLATRIAL WORLD.

TO ADVERTISERS.

The Industrial World, on account of its arre and general eleculation, commendatiself as an advertising medium for all who seek barrens with manufacturers and the wholesale to ic. Its advertising rates are low when emp.red with those of other leading scientific and industrial publications. Curd of rotes ir il en application.

(Vantes in advertisements should be ardered so as to seach the affect by Tuesday morning in sech week, as some juste of the paper go to press

TO CORRESPONDENTS.

f The department "National Industries," is set apast for the unrestricted use of those who derire to place their views on interesting torics before their brethren in the trade. Nothing in the nature of an advertisement will be printed in this department.

The publisher will be obliged to all who will hisdip send in tems of neces or late occurrences. and such will be printed in their appropriate

All editorial communications to be ad-

INDUSTRIAL WORLD OFFICE, Drawer 1010, Ottawa, Ont.

All business letters, inquiries and adverrescents, to be addressed to

PREDERIC NICHOLIA, TORONTO, Out.

ISOLATED FREE TRADE. The last number of the Nineteenth

subject of "Isolated Free Trade," the bject of which is to prove that a Distactivated in the House of Comyed himself worthy of our trust? existence of England has been extraordinary growth and developperity in Europe and America have rely changed her industrial position ty years ago England had almost ionopoly of the manufacturing fuies of the world she produced thing in excess of her consumption, nationa comparatively nothing world was obliged to huy from her, use it could not buy anywhere clacdiscoveries of gold and steam insely increased the demands, and the

have got our machinery and workmen and ample capital, and they are sending sterling. Under Protection France is us a yearly increasing surplus that is accumulating annually £75,000,000 sterdriving our own goods out of our own markets; and overy year they are more completely closing their markets to our ling. Many experts maintain that since goods." Now, whether the reaction against isolated Free Trade is reasonable, or whether it is merely the revival now exports more than she imports. of workingmen's prejudices, as the lead. Protective France imports annually ing journal tells us, it exists, and is growing with a rapidity and an intensity that surprises many even of those best acquainted with the operative class. The organization of the working classes. is very complete, and very atrong, and at this moment the whole of it is being concentrated on this point. Already a number of operatives, far more than is necessary to turn a general election, have through their delegates given in their adherence to the Fair Trade Loague. The workingmen are not tion. It is, I believe, an absolute fact working out the question by the abstract that during the same period the ressoning of others, but by their own capital of the agricultural classes experience; they know nothing of political economy, but they know what were the promises of the speciles of Free Trade, and they know what are the Century contains an able article on the results. Bankers and brokers and dealers in stocks and importers of foreign manufactures may tell them that they policy of one sided Free Trade is not a are fools, and don't know when they are sying one. We call some extracts from | well off; that may be so, but they know r Edward's valuable article: "In 1844 when they are badly off, and they are bad- grand proof of the blessings of Free r Colden said: You have no more ly of now! The most sanguine must cht to doubt that the sun will rise in allow there is something rotten in the agriculture as so natural an event that e henvens to-morrow than you have to state of England. We have a populaoubt that, in less than ien years from tion of 34,000,000 of the best working e time when England inaugurates the race in the world, accustomed for gou. to complain. There is nothing like dying you on bended knoss and pray you to is better suited for agricultural industries | rule of England, it is the great natural pigs and sheep in the world; and yet the the best fitted to grow corn, therefore, and operatives are emigrating cight times the population of a thousand to America, as far as our political econ- acres in grass. A million acres of wheat omists are concerned, Bradford, say they, supplies grain for 3500,000 people must be patient and watchful, and must During the last ten years a million acres look out for new markets and new pro- of wheat have gone out of cultivation, ducts for her lowns." But this is offer | so that now, in 1.81, if the population ing a man a stone when he wants bread, had remained stationary, we should be in Whilst the grave grown the library a position to teed 3 500,000 of people less our starving operatives are conignating to | nearly 3,000,000, so that in 1881 we are

position, she thought herself unassalable, well, where are the new markets to be Our farmers have lost £0,500,000 annu- begins to understand it, and to feel it; to the world, "I will receive any- new markets to be found for woollen thing you can send me without duty, goods, and that the only chance of savhope that they would in turn receive her to preserve to them their old markets. admitting our goods; certainly we will fin ten years. Under l'rotection the comsend you all we possibly can. At pro- merco of the United States liss increased zine, sent, unfortunately, we have nothing to 68 per cent. in the same period. Under send; we cannot yet supply our own Protection the commerce of Holland and wants; but when we have more capital, Belgium, of France, of Germany, has inand your machinery and workmen, we creased respectively 57, 51 and 39 per hope to have a large surplus to send cent. Under Free Trade the commerce you. Well, that was thirty yours ago; of England has increased 21 per cent. in accumulating annually £105,000,000 ling. Under Free Trade England is accumulating annually £65,000,000 ster-1875-1876 she was losing money instead of socumulating Protective America 4,000,000 more than she exports. (The balance against her is £40,000,000 in ten years.) Free Trade England imports annually £130,000,000 sterling more than she exports? The apathy with which the nation views the collapse of agriculture is astounding. The most important interest in the country is within appreciable distance of ruin, and the country makes no sign. During the last ten years upwards of a million of scree have gone out of wheat cultivahas depreciated to the extent of £800,000,000 or £600,000,000 and their Income £21,000,000, and the loss is still strange thing is that this tremendous loss and deprecation le not only secepted by the community as a matter of course, but is even halled by a certain Trade. They regard the rain of British they even express surprise that the agriculturists themselves should venture

years ago." It is one of the unmistak-

MENT. People at a distance are rather puzzled what to think of the present "rair Trade" movement in England. After now France and America and Belgium ten years. Under Protection America is the great Proc Trade victory of over twenty years ago? Are the working back " on a policy which, to all appearratified. Among the circumstances which have deepened this prevailing imservative leader had coased to fight further back than the parismentary sessystem of Free Trade for good, and that speech was probably intended to be read diseater besides, and that the party gotten? One weighty reason may be going on with accelerated speed. The should save its energics for something given why the agitation is far more future. What that something was, in his mind, we need be at no loss to guess; it was undoubtedly the re-assertion of school of economic philosophers as a England's standing as an Imperial power be found in hostile foreign ter #s, that of among the nations. During the latter France being the more immediate occapart of the long accordancy period of the sion of the existing excitement. Now, if Manchester & Aicy, the nation's standing we could believe that the leading combefore the world had run down in two wave-first through such a truckling to foreign Powers as would have been onn- sider their policy of frotection, and to orious om of commercial freedom, every crations to agricultural and manufactural by a fine sword; say they the British sidered impossible for England, not only begin adopting, even rather slowly and vilized commercial community will be ing industries. We have ample capital, agriculturist is dying by the award of under Pier or Carring, but in the more gradually, the English system of Free to traders to the backbone. In 1832 better banking facilities and credit, Free Trade-what nobler fate can be de- recent time of Palmerson as well; and Trade, we might further believe that, said that the time was at hand, when cheaper coal and iron, and better engi. serve? Instead of replning, he should next through the insidious spread of the with the cause of the agitation passing her nations would be compelled by neers and mechanics and machinery try to emulate the cuthuslasm of the idea that the Colonies were nothing but away, the agitation itself must pass I interest and by the reality of our than any nation in the world; greater Bindoo fanatic, who should praises to a butden and a danger to the Mother especity to follow our example and ad- facilities for importing raw materials for Seevs, the destroyer, even as he casts Country, which would be well distinctly that the signs are all the other t Free Trade.' About the same time our industries; our climate is better Limself under the wheels of Jugger- rid of them altogether. Now, way, and that the great commercial naschapted for labour of all kinds all the nauth! It is not only the beneficent while it may seem strange to us that so files, instead of leaning towards. Free ins: 'The time will come when the year round than any other climate in working of Free Trade, anys the Cobden accomplished a reader of the signs of the Trade, are actually going further away rking classes of England will come the world; our soil, take it all through, Club, that prescribes the agricultural times as the great Diseases abould ap- from it, and are more and more strongthparently have tailed to foresee that the to your present legislation. Which than any soil in Europe or America, we law of the preservation of the fittest hostile trade policy of foreign nations own industries. Last year Cormany whet, may I sak, now in 1881, has have the first breed of horses, leasts, that proclaims that, as England is not might force England to reconsider her under the lead of the most powerful own, and that a crisis in the history of cloud that threatens the indus agricultural interest is on the verge of she must grow corn no longer! But do Free Trade was at hand, even at the ately and on purpose adopted a ruin, and the manufacturing interest is the collightened gentlemen who so glibby doors, we may attli conjecture a reason ering and mensifying for all years. in a condition that nlarms all eq. appeal to the beneficence of natural laws which to his mind justified the course he gaged in it limiford is nearly realize what the change means? A took, The decadence of Britain's Imit of agricultural and manufacturing ruined, and both manufacturers thousand acros to grain will support perial power and standing among the pronouncing atrest, on this and other nations may have seemed to blm so alarming that he hold it the duty of the Conservative party to throw all other mainly through the popular dread that issues to the winds, for a while, and to devote itself to the gigantic task of sav- and admit foreign goods too freely into ing the Empire from a decline and fall competition with American. This year which had already began. However this France puts her seal and signature to a may be, history will record that, during highly Protectionist tariff, one calculated atarves, whilst our manufacturers are than we were in 1872. But during that the closing years of his life, and after to be more efficiently protective than justiently looking out for new markets period one population has increased having reached a greetage, he succeeded any she ever had before. Nor is the in arresting the down grade movement, I thing done rashly and without thought, thaning power of the world, and con- America. And when you analyse this a sually in a position to feed nearly and in making the world understand either, for the new tariff is the result of ently the demands for the preducts salvice what does it come to? Bradford 6,500,000 less than we were in 1872 that England was herself again. We two years arduous labour on the part of England. Her would increased by makes woulden goods suit don y Woutually grow loss com now to feed are probably too near the time to take for picked commercial men in both

she laughed at the possibility of foreign found? The millions of Africa and In- ally for some years on the depreciated and it is a triumph for the dead Disagration competition; she offered to fight the rest dia don't wear weeliers. Mr. Batant prices of the wool alone. Our dairy that now the living Glassrous feels of the world with her right hand knows, as well as the manufacturers and farming, our market gardening, our small compelled to say that Englishmen tied behind her back; she said operatives of Braiford, that there are no rural industries are rapidly disappearing, would as soon think of renouncing the Our importation of corn, meat, dairy pro- [name as of renouncing the responsibiliduce, and regetables averages £45,000,. ties and the glories of the Colonial Emadding at the same time an expression of log the liradford operatives from ruin is 000 per annum more than it did ten pire. Such has been the reaction that even a Radical Covernment dere not goods But they said. Not we gladly Under Protection the commerce of the able signs of the times to find such an talk about letting the British Colonies avail ourselves of your kind offer of whole world has increased 36 per cent. article as that from which the above ex- go, and could not succeed it it dared the tract is taken in a leading British mage. attempt to cast them off. This view of what may have been in Lord Beacons. TELD's mind when he declined to die-THE FAIR TRADE MOVE-| turb Free Trade may or may not be the true one, but at least it fairly harmonizes with events.

Is the balance of trade less favourable to Britain now than it was five, ten, or thirty years ago, and the very decided classes suffering in employment or acceptance of the system by the govern- wages, or both, through the hattle opering classes in the Conservative as well as a don of foreign Protectionist tariffe ? in the Liberal party, it soums impossible Would it be wise for Britain to try a reto believe that the nation can ever " go tallatory policy as a means of benefitting ber own people, either directly or ance, has been so almose unanimously through compelling foreign nations into something like "fair trade!" These questions, and others like them, are now pression, the attitude of the late Lord debated at workingmen's meetings, at Beaconstian on the trade question election meetings, and in the pages of during recent years, must count for a leading newspapers, magazines and regood deel. Long ago the great Con- views. We do not on this occasion take up any of the points in debate; at preagainst what appeared to be littain's sent we say merely that that the great trade policy as decreed by fate, and no question of Protection or Free Trade, which but yesterday was believed to alon of 1880, in the course of an elaborate | have been settled for good in magiand, is speech in the House of Lords, he laid it now up again and re-opened for discusdown that the nation had adopted the sion. And this, it it be truly said, is saying a great deal. To say that Free all agitation against it was futile. That Trade is yet on its stial in Rogland is a most Important statement to make-Imas his warning to the Conservative party portant if true, we mean. But is it true, that Protection was a dead issue in Eug. or is the present " Fair Irade" agitation land, that attempting to revive it would destined to prove but a nine days' be to waste effort and to court signal wonder, soon to peas away and be forof better augury in the battles of the likely to 'ast, to apreed, and to grow stronger than it is soon to exhaust itcelf and dwindle away. It will be conceded that its cause is unquestionably to mercial nations, ontside of Rogiand, were likely at some early day to reconaway too. But it may be affirmed most ening the Protectionist defences of their statesman in Europe, deliber-Protectionist tariff. Last year, 100, the people of the linked States had in the Presidential election an opportunity of questions; and it is conceded on both sides that the Democrats were beaten iffn power they would reduce the tariff. and bounds that were lewildering. to Eugland, the north of Lucipe and to 31,000,000 of people than we did forty in fully the magnitude of the great Chambers. But when we say France, was infoxicated with success with America. If Cerriany, France. B Igium years ago to feed 17.008,000. During the statesman's last work, but its frue signif. Cermany, and the United States, we may Immense accomulated would be left and America supply themselves with last tenyears our live stock has diminished ficance will be better understood as the as well asy, the whole commercial world blucry, her coat her from her insular woollen goods and supply England as all in value to the amount of £3,000,000, I years roll on. Even the opposite party outside of the British Empire. And the

British Colonies-those having reprerentative government, that is-are going the Protectionist read too, nothing Tur North American Trate Recording valled will be semoved, surer. It belog the undeniable fact that forms its readers that Innke all over the Protection is not declining abread by United States now refuse to receive 80 Livard Sollivan, in the New Britain will soon die out cannot teasens, twenty-cent place upward, while the ter- luxing wind who ways to his neighbours foreignors have as high Protection the Canadiana having discounted America over your mano a in return't flut the against heras they choose. But the de- can silver, lusion of an expected successful. Free Trade propagands abroad must be Protection is to continue, then, we say must the agitation in Britain for Rectprocity or retaliation continue too

THE ENGLISH HARVEST. The harvest prespects which a few Kingdom are now the reverse, and the probabilities are that in some quarters suffering will be the result. The London correspondent of the New York World, telegraphing to that journal on Saturday, says - "I have just returned from a week's journey through the Midland countles, where the general state of affairs is much worse than can be gateered from the London papers. Trade everywhere is much depressed, and the incessant atorms have apparently ruined the barvest. In many parts the crops have been lying upon the ground for a torinight, torrents of rain forbidding all manufacture of charconi pig fron, especiatiompts to house them. Where the ally, we cannot see why there should be any besitation whatever. With the prowheat has not been cut it has been levelled and battered by the rain and half into wet atraw. Mildew has set in everywhere, and the cut grain is either blackened or sprouting. Thousands of farmers will be rained and many a landlord will fall with them. There has not been a really good old-fashioned barvest in England since 1854, the year of the Bussian war. The crops in 1857, 1558, 1863, 1864, 1868, 1874 and 1878, were average crops. In 1855, 1856, 1859, 1861, 1865, 1867, 1869, 1870, 1871, 1872, 1876, 1877 and 1880, the crops were much below the average, in 1860, 1862, 1866, 1873 and 1575, they were very deficient, 1879 was the worst harvest over known, and 1881 threatens to cap the long list of disasters and literally put an end to wheat growing in production has grown 17 per cent in ten England. From Iroland, too, the news is very gloomy, the late heavy rains having done great damage. We are particularly sorry for Ireland, whose rural population is not in a posttion to stand another bad harvest. That | the production of 1879 | The steel rails country has been singularly unfortunate | made weighed 852,196 gross tons, an infor several years past, and just at a time crease of not quite 40 per cent. over the when the prospects were declared to be the most brilliant for many years, a same year, 1,044,382 tons of ingots and rainy season set in, the result of which has already been very injurious, and the future outlook is the roverse of favours. tary of the Association, the steel works ble. A good harvest in Ireland had been hoped for several reasons; a bad harvest will, we fear, tell a sorrowful tale. A failure of the crops will lessen the ability ingots and 1,500,000 net tone of rails. or the honestly disposed tenant farmer to meet his engagements with his landlord, and will afford mischlevously disposed persons the opportunity of sowing still deeper in Irish soil those dangerous communistic and socialistic seeds which have called forth the strong denunciation of the head of the Roman Catholic Hierarchy, and cannot fail to produce an undesirable crop wherever they take root. It will be used for political and aeditious purposes by those who are labouring to bring about disintegration of the Empire; and it will be taken advantage of by that class of agitators who have little or nothing at stake in the country, whose energies are now bent in the direction of prejudicing the people against the most important Act placed on the Statute book of the United Kingdom in the interests of Ireland for many a day. In this country we have reason to be thankful that we have not a similar story to tell. For a number of years past harvests have been all that could be desired, that which is now nearly gathered in being one of the best in a series of very productive years. In the old country our climate is often referred to in dispanging terms; but who that has experience of both would not prefer the clear skies of Canada to the humid atmosphere of England or Iroland, where a whole day's aunahine is the exception -and a rare exception at that. We do not say that a failure of a season's crop in Canada is not a possibility just as well as in the United Kinadom; but all the conditions of our climate considered, salet people who know what both are

will decide in favour of the situation in

Canada.

EDITORIAL COMMENTS.

and its rich virgin lands may be had for game very close, whereas, by strictly months ago were bright in the United almost nothing. This state of things preserving their own minors), they have will after as the country gets filled up , an immense head of game themselves but in the meantime it offers tempta- And now again we ask for a share of it tions which ought to decide the question of their destination for Englishmen and Novre has immensely increased, let us Scotchmen contemplating emigration, shoot over your manors give us a share and hesitating between the Dominion and the United States."

> In the annual report of the American Iron and Steel Association for the year 1880, which contains a vast amount of valuable information, the Secretary says

"We hope that Canada may yet make ber own from and steel, for the production of which her resources are ample. In the per effort she should make as good char-coal iron as there is made in the United States, and plenty of it. It is surely a re-proach to Canadian enterprise that Canadian orce should be imported to this country while Canada is importing our irus.

This is the Spanish policy. During the past year arrangements have been made by several Bessemer steel establishments it the United States to secure from Canada a supply of ore that is practically from phos-phorus."

From the report, for 1880, of the American Iron and Steel Association we gather that the output of pig fron in the United States that year was 4 394,414 not tone, an increase of 40 per cent. over the provious year. That of Great Britain was 7,721,833 gross tons, an incrosse of about 30 per cent. Comparing 1880 with 1870, however, the British years, while that of America has doubled. The United States make more Bessemer steel than any other country. During 1860, 1,074,262 gross tone of ingote were made-an increase of 30 per cent. over output in 1870. In England, in the 739,010 tons of rails were turned out. In the opinion of Mr. Swank, the Secreof the United States will, at the close of the present year, be equal to an annual production of 1,750,000 net tone of

Wairing from London to the Canadian Specialor, the Rev. A. J. Bray says :-

"Even Canada is scarcely known at all beta. To talk with business man in their offices, and people one meets in railway travelling, is to had how little is known o Canada They call us all Americans, and, truth to tell, very many Canadians not only permit but encourage the use of the general word. I do not wonder at it, for one hardly likes to register from a country of which little or nothing is heard or knowa."

Some of our contemporaries are in the habit of wondering how it is that in proportion to the number of persons who emigrate to the United States, the number who leave for Canada is small. We hold that the above statement, to a great extent accounts for the fact. It is unfortunately too true that information about Canada and Canadian affairs are comparatively unknown in the United Kingdom and on the continent, while, on the other hand, intermation rewhile, on the other hand, information re- believe that the sun ought to appear as garding the neighbouring Republic, its blue as the electric spark, and if we looked resources and its advantages is generally diffused. Laterly, however, an Improvement has been noticed. Canada is coming more prominently to the front, and, as the result of the publication of the personal observation of influential travellers, the visits of representative agricultural delegates appointed to report upon the suitability of Canada as a home for agriculturalists, and the circulation of literature by the Department of Agri- sea.

culture, we may expect that much of ithe ignorance which has so long pre-

any means, but on the contrary growing. Canadian silver fractional courses ex- Contrar thus sets out the contrary growing of and apostal cut to be great mount of and apostal cut to be great mount of an apostal cut to be great mount of a cut to be great mo and spreading, and strengthening with cept at a heavy discount. The discount, Protection & Free Prote Thirty strengthening mer all bestimate monars cropy year that passes, the Free Traders | it says, amounts to reverse off from the vensure Eighard acted exists like a centure, which must be a company 128 the hope that the Fair Trade authation in the company 128 the hopo that the Fair Trade azitation in face value of each or the pieces from the man who has a minor except he i with swriter none exagnature the elfated ably be based on any expected concer cent place and the five-ent place are not all round. These plants of give, more sions from foreigners. It is open to them crived for only seven and times con a than I want and I shall be very happy to argue that she can and will prosper respectively. The Review was a that is to let were short over it whenever you under Free Trade on her own side, let done on the principle of sett for tat, like and executes can will let me sixe t preschious and, ellow kind or year, we will about over your maner with plac-This London Globe encluderan article sure and kill as min hor your gone as linen of Canada, bending date the second alandoned, it is no longer tended in on the Governor-tieneral's trip to we can but as for allowing you to shoot day of August, 1881. In organisting Edthe face of present facts. And it for the the North-West as follows - It over our maners, no We may start we of Welland, in the County of Welland, i is, of course, to the West that we cannot do that, we have no game to in the Province of Untails, in the Dome, for 1-19 of the mine, but was not a trust look for the mold growth of Space, and what we have we preserve inforced? Space Alex D. Broad | Once thust look for the mold growth of space and what we have we preserve Canadian resources in both wealth and strictly for our own shooting! Well. population. There is still a boundless that was thirty years ago. In the meanfield there for the paudent emigrant, time our neighbours have shot down our ·Our game is getting short,' we say, · but of your consumption). But our neighbours still say, not They say more they say, What fools you are to complain about our shooting your game! We never asked you to let us do so you offered it of your own free will, and we told you distinctly at the time that you must not expect us to do the same to you!

> The following letter, written by General Jackson to General Robt. Patterson, of Philadelphia, in 1823, shows the posttion of the former upon the question of Protection .-

> > NASHVILLE, May 17, 1823

Colonel Robert Patterson, Philadelphia. Sin-A few days since I had the pleaaurs to receive the gmas hat which you had been pleased to present and forward to Mrs. Jackson as a token of the respect and esteem entertained for my pubile services. Permit me, sir, to return to you my grateful acknowledgments for the honour conferred upon us in this token. Mrs. Jackson will wear with pride a hat made by American liands, and made of American materials. Its workmanship, reflecting the highest credit upon the authors, will be regarded as an evidence of the perfection which our domestic manufactures may hereafter acquire, if properly feetered and protected. Upon the success of our manufactures, as the handmaid of agriculture and commerce, depends in a great measure the independence of our country, and I assure you that none can feel more sensibly than I do the necessity of encouraging them. For this instance of your respect and esteem and the flattering language with which you have noticed my public services, accept, sir, my most aincere thanks. With tion greet respect, your very obedient and humble scream,

ANDREW JACKSON.

A general order has been issued by the Duke of Cambridge to the effect that regimental colours are not in future to be taken on active service with the regiment, but are to be left in the depot. When, bowever, a battation goes abroad in the ordinary course of relief the rolours will be taken. This decision has been come to after careful consideration of eighty-three replies to a circular which was sent by the Commander-in-Chief to all general officers and colonels commanding battalions in the United Kingdom inviting their opinion on the subject. Now that most of the old fighting regiments have lost their individu-Now that most of the old ality, and have been re-named with the title of some county with which in many rases they never had any connection, it is perhaps as well that the records of their gallant deeds should to lett at home and preserved in memory of the departed regimental numbers, titles, and traditions.

Perfessor Langley, the director of the Alleghany Observatory, lays claim to a discovery which, it true, will form an entirely new starting point for researches in solar physics. Professor mangley wills us that the sun is not really white, nor vel-low, nor red. as we see it at different times of day, but that sunlight is bine. It is our atmosphere that gives it a false colour. In a word, trofessor Langley would have us at the latter through a yellow atmosphere, it would not be unlike the sunshine we see. The Photographic Name suggests that, if Professor Laugley is right, not only will be upset physical theories in general, but photographic theories in particular. Professor Laugley proposes to undertake some experiments at different sufferent and different supports at different supports undertake some experiments at different altitudes, so as to be as tree as he can from the lower strata of atmosphere, at any rate; and with this view he intends to establish two special observatories, the one at a station 3,000 feet high, and the other 14,000 feet above the level of the

NATIONAL INDUSTRIES.

proceed the best of the section is easily in the boy of the length of the length of the section is guarrof the country to spublicate want concolumns. It will rate but a few minetes time. In the better it is

NEW INDUSTRIAL ENTABLISH-MENTS

41 stellowing nott ex appear to the

Canda Gozette Lat a notice is hereby given that, and rithe Canada louit Stock Companies Act, 1-77, Letects Putent lieve been essed ender the their Sed of the Done inton of Canada, Esquire . Abel D. Breed. of the City of New York, in the State of New York, one of the United States of America, banker, Jonathan Turner, of Burlington, in the State of Town, one of the United States of America, sugar rether, the Henourable Richard William 000, and if the spring trade previous, of the City of Ottawa, in the said good, the business of the compart finer, the Henourable Richard William ovince of Untario, Intrister-nt-lan. Horaco Brightman, of the said City of \$130,000. Last very it magnits by New York, hinker, James McLaren, of but that was an increase of nearly Buckligham, in the Province of Quebec, in the wild Dominion of Canada, Prosident of the Bank of Ottswa, and Savers Sitas Hagar, of the said town of Welland, Esquire, for the purpose of unnufacturing, refining, buring and relting of starch. glucose, grape, cane and other sugars and | avrups to be made from corn and other materials, and the owning or hiring of lands, docks, buildings and plant necess-ary therefor throughout the Dominton of Canada, by the name of "Too Grapo Sugar Reliating Company of Canada (Limited), with a total capital stock of one hundred thousand delians, divided into one thousand shares of one hundred

Public notice is hereby given that, under the Canada Joint Companies Act. 1877, Letters Patent have been fested under the Great Seal of the Deminion of Canada, bearing date the twenty-seventh. day of July 1881, incorporating Matthew Whiting, of the City of Brantford, in the County of Brant, in the Province of Ontario, in the Dominion of Canada, Es-limited extent. quire, William John Scarfe, of the same lace, manufacturer; Hugh McKenzio Wilson, of the same place, barrister-ntlaw . Austin Demmons Cable, of the City of Montreal, in the province of Quebec, in the Deminion of Canada, broker, Morton Frary Hale, of the said City of Brantford, broker, and Robert Charles Smyth, of the said City of Brantford. Intrister-at-law, for the purpose of manufacturing and selling churns and other farm and dairy utensils throughout the Dominion of Canada, and of acquiring and holding the property required there-for, by the name of "The Farm and Utensit Manufacturing Company (Limited), with a total capital stock of the thousand dollars, divided into five hundred shares of one hundred dollars.

Mr. J. W. Brownell, Ambient Shore, is doing a good business in the boot, shoo and tanulng trade.

A beet_root factory is projected in Whitby Is will require for its support half an acro. This firm will make 1,500 acres of beet roots.

The spool fectory at Elgin, A.C., is running in good shape, and is a source of great benefit to the propile of that acc-

The manufacture of white metal goods of all kinds has been started in Water- they could introduce a new industr

A large loam from the Levingston mills, Laconia, N. II., passed over the purposes. By it 130 may be reduced t

The extraction of iron ore has been commenced on the MoDonald-Woaver substance, and are very heavy. The property, East lilver, Picton, N. S., gentlemen have since gone analy by property, East litter, Picton, N. S., and is being shipped to the United States.

Canvia is going ahead beyond a doubt, It has now a stock farm of 60,000 acres and a dairy establishment of 70,000 Mr. Cochrane owns the first, and Mr. Morton the second

The prairie grass of the North-West is being utilised for mattresses. Mr. Joseph Barrowclough has introduced into Manitoba the requisite machinery, and is now erecting the necessary build-

Newcastle, New Brunswick, is to have spool factory, main building 50 x 28 feet, two storeys lilgh; sizes of other necessary building not yet decided on Will employ from 20 to 25 hands summor and winter.

A few weeks ago, the Kentville, N S Chronicle mentioned that Mr J W Currier, of Waterville, was about engage ing in the manufacture of white metal instance the case of a St. John firm goods of all kinds, and it is now glad to be able to announce that the new enterprise is in successul operation

One thousand two hundred and eighty acros of the Julius musker in Manitola have been leaved from the Dominion Government for the purpose of manufacturing peat on a large scale. Thirty thousand dollars are to be invested in turning the muskog into a fuel yard.

property in Albert County N B TATIONAL INDUSTRIES. Iwo tone of a very good on large all the state of well und nava trat the 11 ther tere

> The Nova Scotta tilese to Oliveron, have just placed an o to one boxes to jack the readers jaminuta ture while in and the it up of one 25000 feet of landers ja company are pushing their work. , ward and they confidently anti specia in able to make glass Moudel v. The can ildes have just be u set

Messrs Preced & Goods Boy. opper and lead mine in New Lea C. given excry melication or to out well. Last work Dr thealer sunk to a depth of six test in the They have discovered three hada or r mineral one of silver, one of cappe a one of lead. It is and that a

The Amberst boot and shoe to to prospering greatly. The company of employ to lands and the factory to ning tight and day The orders in moult of for the fall traite amount to \$1 the present year will be increased cent, over 1878

A factory is bring organized in La bainois, P. Q. for the manifection fecula of potatoes. It will produce to 000 lbs of comestible fecula, 150 nm., . of focula for the manufacture of cetta and 100,000 the of glucose syrup | 1 . a new source of revenue will be op a up to the farmers, and another Illist. tion afforded of how the establishmen of one industry helps on that of and The factory will be in operation .. October.

Mr. S. P Benjamin, of White is Mills, Kings Co., N.S., lias started . that place a barrel and box factors !. making boxes and burrels for the putt up of apples and plums, etc. put in improved machinery, and is alto turn out 240 'mirels a day leads boxes. Next year Mr. Benjamiu intent. putting in machinery that will turn " at frant 60,000 barrels, saying nothing . boxes, which he can furnish to an

The Measra Edgecombe, carring time ers, are pushed to their utmost care? In order to meet the orders that are costantly coming in upon them Yest. day afternoon they sent twelve carrage. of their own manufacture over to to New Brunswick Bullway Station ... dressed to partles in Edmuniston a 4 the country around. It was the last as hibition of factory work on wheels t . we have seen here for quite a while some of the vehicles were very han some and excellently constructed.

Measta A Robb & Sons, who kay been adding to their foundry bridged at Amherat from time to time, now fa It necessary to build an addition 4'x fort, 2 storics, in order to extend the machine shop and stove requesting room and give space above for a new patter making shop and its necessary wo-s working machinery. The building connected with this establishmen thems-lves, now cover an area of ale . good show of furnaces and ranges at it Dominion Exhibition, Hallfax

Mesers Charles Chinnock and H. Bett of New York city, were at the Bari Thursday, and visited the Bable Bros' mill yesterday to learn ville, Nova Scotia, and is in active licie. They propose to start an e-tai operation ing potatoes, apples, etc., for shipping Intercolonial the other day en route to he wilk of 30 parrers, and the principle Robert Fraser, Rocklin, Picton County, in much the same as that of steam presented by the same as that of steam presented by the same as the principle when the potatoes as ing apples. pressed they become like a glutlage . they expect to return in ten or two vdays. Two gentlemen, whose names w have not learned, are now at the Batke and are looking around with a view o establishing an industry here for reasvating old forthers for mattresses ; lows, etc. It is their intention, is t'find the work practicable here, to monce business at once.

Save the Hollfax Healt Mr. Anslow editor of the N B A'es : who spent a few days in Windson au! arrived in this city last night, reports that the Windsor Furniture Factory is running at full speed with order werths shead The Windsor Foundry Companrequire more liands. They have beruining all the year round sine t National Policy came into opera o Proviously they used to suspend of t tions three months a year To give files of the change the National It has brought to them, the propriet under the old tariff imported all the ranges from the States now get ther a from Windsor. On Saturday the : received an order from Ottawa a vicinity for sevenly stoves! ! 1 This but a sample order, with a promise. larger ones to follow Here, then, t National Policy enables a Nova South throusand dollars are to be invested in manufactory to send its production from the muskog into a fuel yard.

Mr. G. D. Carter keeps men steadily compete at work at the mine on Mr. Newsconder. at work at the inine on Mr. NewcomVs maker, but to go up to the Canal a

cat and successfully compete with

the neural state will be gird to is fast week was writ by the commitandeligate to Montreal, to solleit taline of the stock, amounting to t \$7 con Mr t mry writes that he ared \$10,0 to on the day be laste. this parties were willing to take all cotton goods that could be manufacand This le estisfe, tory and encouragin this does not surprise us as it is only at we were sure could be done. The olo stock we think could have been und in Hants county, or even in Windfor that matter, but perhaps it is to have parties in Montreal Inter-. . . oods to better advantage in the mar-The remainder of the stock it is ge than likely will be taken in Monal If not then there will be no diffity in getting that small amount made it means of turning the tide of success our favour It means the employent of at least 150 hands directly, and utile that number indirectly. It will tas a stimulus to trade, and boa blessng and a licon to everylody. Let us eare the work commence at once, and all that is good and gracious don t let thody throw an obstacle in the way of the successful carrying out of the scheme e well advanced. In that respect let us le different from some other places wo dimention, which are larger, and. perequently, should know 16 .n lace Mail

We offer a second instalment of our We have grouped the Portland workstops by themselves, as we desire to show to the people of Portland what a very large number of them are dependent upon the factories for a living , and use to show their representative in l'arament, Mr. Isaac Hurpec, what many of the most influential of his constituents think of the National Policy. In every me our reporters have put the question to the manufacturer: "Do your work people live in Portland?" and in nearly reery case the answer is that they do. That is to say, that in the shops we have neticed, so far, there are employed about 1,100 hands, on whom at least 4,000 people, or one-fourth the entire topulation of the town, are dependent for their ually bread. That our readers may see at a glance who the principal meaufacturers are and the number of perconsthey employ, we supply the following list, which will be handy for reference: Parks Cotton Factory, 375 hands; James flartis & Co., foundry, etc., 222 hands, francis & Vaughan's shoe factory, 190 bands; Phillips Bree shoe factory, 12 lands, C. D. Damery, Insoles, etc., 30 hands; Cheeley Bros' foundry, 30 hands; ffaslehurst & Co's foundry, 30 hands; Connor's ropewalk, 45 hands; Fowler's reging and axe factory, 25 hands; Abrans & Kerr, machinists, 30 hands; Geo. H. Waring, machinist, 29 hands; t John Holt and Nut Works, 22 hands Miller & Waring's Nut Works, 3 bands; C E Burnham & Co., furniture factory, 50 cands; J. B. Emery, excelsior, wringers, etc., 10 hande; Falrbanks & Hawao, sash and door factory, 15 hands; Price & baw, carriage factory, 30 hands; Kelly A Murphy, carriage factory, (estimated) rates going three years ago, and they and that there has been a general advance. The estimate for the whole of the workingmen is an advance of 25 pert -St. John Sun.

> OUR OIL FIELDS. (() lobe.)

PETRALIA, Aug. 29

The petroleum fields of the County of Lambton present an appearance unique or Canada, being altogether different from anything to be seen elsewhere in the whole country. The aspects of life, too, are singular, and many of them find their only parallel on this continent in the gold and mining sliver regions. Here all the stages of the history of a California gold field have been present— the rush of population, the wild excite-ment and mad speculation, the sudien colossal fortunes which have turned the poor man into a millionaire, in-ense tiches missed by the mistake of a moment, and lossos which have turned wanderers over the face of the earth. l'owns havo grown in a night and vanshed in the morning, and the tales are inid of wealth licatuwed so lavishly, so adleriminately, that they rival the wooders of the Arabian nights. The ater history of the oil fields has been ite element of apoculation and the prospects of rapid fortunes, and become a regular branch of infeand understand its ways. The regular branch of industry, with the ordinary profits of a flourishing manusation and England are all represented by good to repud be a sum of the Queen, the moeting was adjourned for the Queen, t

Here and there elsewhere the unhout the na the leng continued drouth and interse present is imagined. Of these regions the sear thats of autumn. In a season of by fer the most important oil held is in continuity wetness the place would wear a out of the c heavy route or travel, there appears much room for the im-its milesay communications. Being provement which no doubt will be made more or less tangillar with the history of excitement who have not tilea of the evel eyes or care fait for a single moment to tent and interesting features of this keep this feature in its due prominence strange town and its strange auburbs, wherein is derived the light of almost the whole Dominion from the Rockles to the Gulf of St Lawrence. Thotown of Petrolia lies in the town-

ship of Enniskillen. twenty miles wuthcast of Samla, and eight miles northwest of till Springs, formerly the centre phere The Cotton Factory a success of the oil production of Untario It is p Lero The Cotton Factory a succession of the on the north by a branch line, each of great deal. Windoor has been freached from the north by a branch line, a standstill for years, and this will be five rolles long from Wyoming, on the a standstill for years, and this will be Sarnia extension of the Great Western Sarnia extension of the Great Western Rallway, and from the south by a branch line of the Lambton extension of the Canada Southern. The alte is in the midst of the great plain which almost everywhere throughout this county is as level as a Western prairie, and broken only by the ravines of several tivers or creeks awrening round and round in sluggish curves till they empty into the St. Ciair lilver. Tho creek which flows across the low, narrow town of l'etrolia is Bear Creek, sometimes a river of large volume, but now a series of stagnant pools separated by reaches of sand ilat is about an eighth of a mile wide, crossed by but one street, the main street of Petrolla. The hollow is sometimes called the valley of churches, for the only buildings on the flat are four woodon churches, raised on posts to a sufficient height to prevent the water entering the churches in times of freshets. The tossiway is considerably clevated above the flats, and the sidewalks, from which branches are laid to the church doors, look like nerrow foot bridges. On either side the bapks rise steeply to the unlform level of the plain, and the town stretches on either side to a distance of three-quarters of a mile. The buildings are nearly all small frame buildings, there being scarcely more than half a dozen brick structures in the place, and these have been built only within the past year or so. In fact, until latel, "he residents felt inclined to look the Petrolla much as the Chinese resard California—a good place to make money but to be got out of as soon as a suffici-

ency had been acquired. This state of things is not likely to continue much longer, as the lapse of years and comparative ateadiness of the production has seemed to indicate that the presperity of the town is likely to be more than evanescent. Still, although improvements are being made, gardene are few in number and generally neglected, buildings are not kept in telm condition with occasional coats of paint, and the erection of a valuable brick building aubjects the enterprising builder to a fire of discouraging comments on his rashness in thus sinking mosey. Yet there are a few, and those among the leading men, who have confidence in tho future of the town. One of these, Mr. Lancey, a well known oil refiner, is completing on the Main street a handtest, harnes; Lawe's dye house, Waler's foundry, Fowler & Son, ships' has had cut in the large stone ornaments which also made inquiry in reference to the name "Lancey's Folly," and also made inquiry in reference to the name "Lancey's Folly," and thouse of wages as compared with the page to see the progress of the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse on the town rates or wages as compared with the name a humanous arouse of the town rates or wages as compared with the name a humanous arouse of the town rates of wages as compared with the name a humanous arouse of the town rates of wages as compared with the name a humanous arouse of the town rates of wages are considered. make the name a humorous sarcasm on the faithleseness of his neighbours.

The streets are of blue clay-in dry weather beds of dust, and in spring and fall perfect quagmires. Countless leads of gravel have been deposited on these roadways, only to disappear as completely as sait thrown into a pot of boiling porridge. Yet apparently the streets are not wholly neglected, for the town is taxed, I am informed, three mills on the dollar, and there appears to be com-paratively little else in the way of corporation improvements on which money can be spent. A porti a of the main street has been laid with a double track of planks, and this, when kept in repair, furnishes a very fair highway. The fasci - system has not been sciopted, probably because it line been overlooked, but there is no doubt that a thick layer of twigs and branches, covered with a layer of gravel, would make a cheap, durable, and satisfactory roadway.

But flatness, wooden houses, and blue gether for mutual benefit. clay streets are not the only nor the most prominent features which impress a stranger visiting the great oil fown The houses do not seem sufficiently numerous to afford accommodation to more than two thousand people, yet the town contains twice that number, and if the suburbs extending to the north-west and south-east be included, several thousand more. The people are active, businesslike, and intelligent, in fact wear more the along distance.

their power espetais. And this but has been discovered litely in subject to the will yet make the town all reformation. Subshivisions soon begone to discovere the promise the opening of a that teste can make it. That may be to gring up, and after the lapse of an about we are will be glad to Harmonic the office of the first of the first own, how much t could not determine, here with price period there were over in that the Windor Cotton Factory is county slight indications of oil have heat have burst vigoration to a light Gradually the order spread its indications of oil have heat have burst vigoration to a light Gradually the order spread its indications of oil have been to be burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight of the county alight indications of oil have been the burst vigoration to a light of the county alight of the county alight indications of oil have been the burst vigoration to a light of the county alight of the county alight of the county alight indications of oil have been the burst vigoration to a light of the county alight of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indications of oil have been the burst vigoration to a light of the county alight indication. that in time the petroleum region may drouged not witherms, and even the divisions in existence, mirroling in the found to pussess wider limits than at wavende weeds have promitately assumed their membership nine-tenths of the left and around l'etrolia. This town lies for more taviting appearance, as it now is on the fir away west. (Cheers.) its railway communications being provement which no doubt will be made by branch lines of branch lines. And within a few years. The great f atmost there are few people amongst a public the place, however, is the oil business. with all that the term implies. Should before a visitor his nose will restore the proper impossion this is everywhere present. In damp weather it penetrates then with the Brotherhood. Already into the bedrooms, and makes sleep a over \$1,1450.573 had been expended difficult thing for persons of sensitive coloured, for nothing but sine paint will deceased cugineers was beyond calculates the peculiar influence of the gas silverwate turns black, and even the the Brotherhood, it might be asked why walls and ceilings of the houses show the little apported atrikes? He disliked olfactories. The buildings become dispencirating effects of the atmosphere of the word and dishked the strikers thems the place. Yet residents become so selves. There was nothing in the sohabituated to it as to suffer little or no cicty to encourage these disagreements, inconvenience. Whether the pre encourage and he was pleased to say that the few inconvenience. Whether the pre-ence and he was pleased to say that the few of this gas has a deleterious effect on the strikes engaged in by engineers had been forced upon them. All honourable ficaltle of the inhabitants it is impossible to say. The tale y minengst young children has been excessive. Several funerals per day of very young people were of ordinary occurrente last summer This, however, is not a necessary result of the peculiar industry of the neighbourhood Scartet fever, diplitheria, and typhonic were the chief invises of last years mortality, and the neglect of drainage is said to have been responsible. At any rate the improved drainage secured lately has been attended by a very marked improvement in the health of the inhabit-Drainage, fortunately, is not so ants. difficult as to provent its being thorough, for Bear Creek lies tar below the level of the town, and sewers could easily laid to connect with it. Among sciults there is little complaint made of illhealth beyond the too conscious possess

lon of a livet. Water is exceedingly scarce, there being but half a dozen or so good wells in the town. "Free as the air we breatht or the water we drink," is an expression which is rarely need even in the pulpits of the town, for to say nothing of the cost of raising the gas water liss for years been sold at the rate of one cent a sailful. Water being scarce, the hotels do a good bar business, and whiskey is in domand. Novertheless, drunkenness Is uncommen, and the place one of the most orderly in the whole country

In my next letter I shall refer at length to the oil industry of Petrolia.

LOCOMOTIVE ENGINEERS.

Public Mosting In Loudon.

The City Hall was well filled last night on the occasion of the meeting of the Brotherhood of Louometive Englneers. Representatives were present from various parts of the United States. from various parts of the United States.

Mayor Campbell occupied the chair, and surrounding him were: Mesers. W. R. Meredith, Q.C., M.P.P.; D. Macmillan, M.P., Hugh Macmahon, Q.C.; P. M. Arthur, Urand Chief Engineer, of Clovelland, Ohlo; Rev. W. Herridge, C. F. Hanson, H. Crouch, A. B. Powell, exald. Skinner, Peter Temple, Chief Engineer of London Division; Tinsley, of Hamilton; G. Burdett, Second Assistant Grand Chief Engineer; M. Erhardt, of Bochaster. W. Pogs. Ald. Stringer,

aprakers. Mr. C. F. Hauson, Locomotive Foreman, London, remembered quite distinctly when the first railway was open-ed in England and this country, and at that time all sorts of evil results were predicted. Stephenson was laughed at when he said the trains would run 20 miles an hour. "What if a cow got in front of the engine?" was asked by the ering sceptics. "Then it will be bad for the cow," answered Stephenson, and the work went ahead. There were now in this country over 90,000 inlies of railroad, representing over a billion dellars in value. As the railway interest grew it was found that the men who should be given in charge of the cogines required to be those of iron nerve, able coolly and quickly decide in momente of danger, and as the number of engineers increased, they, in turn, found is to their advantage to bind themselves to-

Mr. P M. Arthur, the Grand Chief, was received with cheers. He was glad to be present on an occasion like this. fraught with Impertance to the englneers, the public and the nation ever What was this Amociation? What had Looking over the past it was It done? found that twenty years ago there was no association among engineers, and as a to-nit the men of the throttle were but little respected, little known. Isolated from home and society, their business

to intawe, and our super and or removirum tris incleanation (the volume ratios of the Domyton II to the Trethem along the line to the proceedings were along with the proceedings were along the following the follo forty longes and a timed Division engineers from the trult on the South, the Atlantic on the cast and the Parite monthly Journal had been begun, and at each from it was crowded with information of an inestimable character to the Brotherhood and railroad men yen rally Its circulation was over 4,000, and he wondered not, therefore, that the memhers were proud of it. The Widows and Orphan's Fund, had been organized, and was one of the best features in connecfrom Itationsury (applause), and the joy and peace it had brought to the homes of selves. There was nothing in the sobeen forced upon them. means had been used in every case to coins to some understanding with the superintendents of the roads, and only when these had failed was energion re-sorted to. He wished, therefore, to impress on his licarers that there was he disposition among the members of the order, or nothing in the constitution to encourage atrikes. (Applause) It was only when their interests were at stake that they employed the means in question to effect an adjustment and detend States, which rosulted in riots, have been frowned down upon by the Brotherhood, and at all times it stood ready to man the deserted engines and take out the trains He was very glad to say that their relation with the railway companles, the country over, were of the most amicable characies (a, glause), and lie hepod always to have that desirable state of affairs continued. White he encouraged his fellow members to stand up for their rights, he at all times urged them to do it respectfully and without overbearing haughtiness. The Order differed from trade unions, in the respect that it dictated to none whom they should employ on their railways. He did not believe in a wishy-washy policy towards employers, but that at all times the memburs should hold up their heads manfully. (App'ause) Moncy did not niake the man; it was character; and hence he consistently and constantly advocated a policy that should be manly and straightforward. He spoke a few words on capital and labour, and re-sumed his seat after thanking the audience for its patient attention, and to His

Worship the Mayor for presiding.
Mr. D. Macmillan, M.P., was thankful to the Brotherhood for the privilege of that he had not known before. Ignorance on his part in the past had prompted him to suppose that the order had for its chief object the aqueesing of every possible dollar out of the employers of ta members. (Laughter) Ho was vory happy to say he knew better. He spoke in a eulogistic strain of the principles of the Brotherhood and the responsible nature of the unglueer's calling. He would not delay his hearers further, and con-

ly gratified on being able to accept it. For various reasons he was happy to be present. In the first place, to hear the able exposition of the principles of the order by Mr. Arthur, and in the second to learn of its rapid progress throughout the country. It was but another illus-tration of what might be accomplished by energy and pues. (Great applause.) This was a very suitable year for the Union meeting in this city, for it was but a few months ago since the centenary of the finmortal Stephenson had been celebrated. (Hear, hear.) If he were alive at the present time he would find bimeelf the father of one of the largest and most respectable families in the world-(applause)-of men whose position imposed on them the highest trust and required of them the coolest nerves and most active brains. Ho was in thorough sympathy with the principles of the Order and wished it success He joined with His Worklip the Mayor, welcoming so large a number of visitors to the city, and sat down amid applause.

Addresses followed by Mr. A. B Powell, Roy W Herridge, Ald. Stringer, Mr. Densely, of Hamilton, and Mayor A vote of thanks was then marks tendered Grand Chief Arthur.

A resolution of sympathy with the President of the United States and the people of that great nation in their pre-sent position was honoured by a standing

The oil region is already better to bush as more, and as a consequence and moral characters. In the city of with Mr. Hally's neual skill and tasts to titans, and our sugar and to the contract of the contract o

Montreal, with A meeting of the abareholders of the Atlantic and North Western Railway Company was held at Montreat to day, at which the following named gentlemen were elected directors. named gentiened were elected directors.
George Stephen, Dancan McIniyre. Hon.
Bradley Berlow, Hou J. J. C. Abbatt.
Hon. P. Mitchell. Hon. Senator I. R.
Thibaudeau, C. Colby, M.P. R. J.
Kimball, of New York, and A. B. Ubadee.

The shareholders passed a resolution in-structing the directors to proceed at once to cause surveys and plans of the bridge across the St Lawrence near Montreal to be made, and also surveys to connect the line and bridge with the Canadian Pacific Railway westward, and also branch lines to connect with the bridges and railways south of the Mt. Lawrence River, in Canada and the United States This railway charter gives the company power to build the railway from the Atlantic sea-board in Canada via Lake Megantic, board in Canada via Lake Megantic, Sherorouke, Montreal, Ottawa, and Fresh River, to Lake Superior, and to connect with soyrailways in Canada or in the United States, or to purchase any existing line or lines of milway, to tun steambosts and build wheres, clavaturs, etc. The capital of the company is \$10,000,000, and gives the connect nower to issue honde gives the company power to issue bonds for \$20,000 per mile on all railways con-

gives the company power to issue bonds for \$20,000 per mile on all railways constructed or purchased, and \$10,000 per mile on preference atock.

At a meeting of the Board of Directors of the Uanadian Pacific Railway Company, be'd here to-iny, the contract for the sale of the \$20,000,000 of the company's five per cent. land grant gold bonds was duly executed, and the Board authorized the President and Secretary to execute the mortgage, as authorized at the share-holders' meeting, held here on the 19th ult. The mortgage requiring the bonds is made in favour of the Hun Sir Airxander Campbell, Hon. Alexander Mackenzie, late Premier of the Dominion, and Mr. Samuel Thorne, of New York, as trustees. It is said that the Directors of the following are considering a proposition to take up a portion of the \$10,000,000 gold bonds of the Uanadian Pacific Railway Bank of British North America, Bank of Turonto, Bank of Commerce. Moleon's Bank, Impered Bank, and Federat Bank. The first issue is to be at 925 seco.d 95, and third 971. One half of the whole loss is to be placed on the New York market. placed on the New York market.

AGRICULTURAL DELEGATES

When, at the suggestion of the Hon. JOHR H. Pors, Minister of Agriculture, the Government decided upon inviting agricultural delegates to visit Canada and see for themselves the suitability of the country as a home for immigrants they adopted a wise policy; for however glowing the scoounts given of the country by Government agents, their statements could never prove so worthy of credence on the part of those to whom they were made as the reports of representative mun sent across the ocean by farmers for the purpose of espying out the lami." Last year British delegates visited Causda, and their reports were, as a rule, in the bighest degree favourable. Tuesday a delegation, consisting of Dr. Wisdersners, Dr. Ludwid Schrauten and Mosers. F. KERSHARD and L. GLOCK from Germany, with Mr. W. OcecaLAGER, being present and learning something of Berlin, Out, as interpreter, had an interview with the Minister of Agriculture, with whom they conversed on the subject of German emigration to Canada. They are on their way to Manitoba and the North-West. After they have visited the western portion of Canada they will turn their stops towards the older Provinces. As the Germany are a desirable class of immigrants, we hope the visit of the delegation will be attonded with the results desired by the

A delegation from Switzerland is expected by the Polynesian next week-Citizen.

An Armenian paper the Austak, pub-lished at Tiflis, announces the discovery, lished at Tills, abdounces the discovery, in the neighbooting forests, of a wild man in the woods—a human beind, speaking no language, completely naked, but with body, limbs, and noe covered with heir. His nationality is unknown, and as he seems incapable of uttering a, ioniate sounds, it is likely to remain so. An at terms to clothe him met with no announce. tempt to clothe him met with no snoores, for he tore the things off him with savings

ODOTET. Ohina is steadily getting her affairs into her own hands. Uniness merchants are proving that they possess energy and foresight as well as wealth and perseverance, and whilst the Coverament is preparing to meet opponents on land, its i preparing to meet opponents on land, its imerobants and people show that they are preparing to meet the world on the sea. They have just taken a step which, whether it be only a mercantile speculation or a part of a preconcerted plan, is significant of a policy mach more comprehensive and far reaching in its consequences than are usually attributed to the quences than are usually attributed to the Clinese. A mercantile company (Obt-nese) has started a line of salling ships principally to carry Chinese labourers to Portland, Oregon. Defore long these will be replaced by steamers. The opposition of the labouring and artism classes to the competition of Chinese low-priced labour is easily dismissed with a few sarcastic reis easily dismissed with a few sercestic remarks upon nerrow-mindedness and ignorance of political eco-comy; but China can spare millions of labourers without difficulty, and it would not require millions, or even hundreds of thousands, of such attenuers as Chinaca. will dead of such strangers as Obligese, wielded as one man by secret societies in Oblina, very

SPIRIT OF THE COMMERCIAL ferent from the record in the seven years financial market at home might be so besides having his goods, is full of other and improve and improve an improve and in the seven years financial market at home might be so besides having his goods, is full of other and improve an improve AND INDUSTRIAL PRESS.

ENGLADDS BALANCE OF TRADE

ult, contains an article on "Trade Depression and its Remedies, in reply to a we make the following quotations --

our industrial difficulties that has gained for this article a certain amount of sttention. There is, however, another respect in which it is worthy of notice. Than that which it affords there could be no more convincing evidence of the want of knowledge and of sense which characterizes those who declarm about the svila of free trade, and of the stry nature of the remedies they prescribe. It our imports over our exports that the reviewer fastens as the most conclusive which, owing to our fiscal system, we are being subjected. We are each year, he maintains, spending more money than we receive, and thus following the path which leads to national insolvency The idea that the magnitude of our imis a proof of prosperity he denounces as ene of the most blundering and most mischleveus of the delusions which have helped to blind a portion of the people to the true state of their affairs. buy more than we sell, and to make that not an accident of our trade, but its permanent deadition-this, according to the economist is a most excellent thing for the country. Practical men, who look at such matters from a strictly business point of view, come to a differ-ent conclusion. With that manner of practical men can the reviewer have been brought in contact? They must certainly be very curious specimens of their kind. We had thought that every man of business knows that if we are doing a profitable foreign trade our exports must inevitably exceed our in-What the value of the exports represents is the cost to us of the commodities we sell abroad, and if we sell at a profit the amount which we bring back in money or in meney's worth must necessarily exceed the value of the goods when slilpped. And the larger the profit, er, in other words, the more satisfactory the trade, the greater will be the excess on the import side of the account. This is surely patent to all who care to look, and when it is further remembered that through our imports we receive payment not only of goods sold, but also of the interest on our immense foreign investments of capital of capital, of tho serned by our merchant marine, and of the commissions, insurances, etc., payable to British traders and financial fustitutions, the causes of the great preponderance of imports is sufficiently manifest. The writer in the Querterly, however, either cannot or will not see them, and he adduces what he belives to be proof that the enormous inflow of foreign product is sapping our resources. "The theorists who uphold the wonderful dogma just referred to that is, an excess of imports ought to be the permanent condition of our trade) are," he says and are always asking some one to tell them what becomes of it. It the to mous are expects fully as much as extended them payment of our doubt that is the heart of the mystery." But the curious thing about this evaluation that is ports of manufactured goods Them the curious thing about this evaluation. that during the seven years to which it particulary refers there has been no drain of gold whatever. The figures of our imports and exports of specie during that period are -

1874 1876	. 37,364,789 . 37,764,244 . 37,182,780 . 32,422,965 . 24,156,534	Exports £2:A55,500 27:A84,000 29:464,000 39:766,110 36:394,544 26:364,311
1990	£210,063,306	19,889,30
	والمواوية المايسة	£133,904,79

Thus instead of the precious metals leaving the country, they have been hwing into it, and if, as the reviewer ... seumes, gold flows from the debtor to the creditor country, then his own contection provee that, instead of our having become heavily indebted to other countries they have been indebted to us. On this abowing, instead of living beyond we have been living within our means spending less abroad than we carned, and consequently leaving a balance due to us which has been brought home in

hard cash. Before proceeding to the main point we stop here a moment to point out a plece of disingenuous argument. It is evident from the figures that it could not have been the purpose of the reviewer under comment to allege that the aggregate exports of specie in the seven years were greater than the aggregate imports of specie in the seven years, but were greater than the aggregate that the drain of the proclous metals from the United Kingdom had begun and had established itself within the period which was the general subject of is exposition. It is an exceedingly suggestive fact that, in the seven years specified, there are three which exhibit an excess of exports over imports of specie, and that, in the previous eleven yours, 1863-

and silver exports were 12:065,320 barrassi.ents
greater than the imports, in 1819, were The radical detect of the Economics true of trading communities as a whole 24,4:29,174 greater than the imports, argument is that exports are regarded as Those prosper who can find out markets and. In 1881, were 12,635,02) greater and. In 1881, were 12,635,02) greater and the imports. The favourable ball purchase and experts represent sale. It which will make a 123,83,1.703, the a nation taxes are to sell more than it short, something is wanted besides no bad been repeatedly wetted and dried. Supports that the support of the support of the fooder of the support of the fooder thing in the affairs of nations is called districts the diesster is complete. The fooder than it sales, then a prophet will producing commodities. That some eaten up by milder. In the fooder thing in the affairs of nations is called districts the diesster is complete. The fooder than the support of the country, that had a country, the country that the fooder than the support of the country that the diesster is complete. The fooder than the support of the country that the diesster is complete. The fooder than the support of the country that the support of the support of the country that the support of (Chicago Journal of Comm ree.) than the importa. The favourable into not the true relation. Imports, present there is something maxical in finds nated on Thursday in a general than the Lordon Keonomie, of July 23rd and of color and bullion in the live purchase and experts represent sale. It which will always bring a nation to buy storm with a little second than now famous paper against Fuglands 915, and the aggregate exports £140, now famous paper against Fuglands 915, and the aggregate exports £140, free trade policy in the July number of 430,387 list when we take the sovers the Quarterly Recies. From this reply number of the excessive outflow in 1879 It is, no doubt, the terrofacedness of its attempt to make political capital out of our industrial difficulties that has capital out of our industrial difficulties that has capital out. It is not only the capital out of our industrial difficulties that has capital out. It is not of such years would by atigmatizing it is an detected billary. entirely wipe it out. Next, when we for the sake of annihilating the arithmetic that the Boant of Trade returns matter certainty which it affords for the first six months of the current as a species of evidence in determinyear abow the imports of specie at ing the gains and the losses of £0,308,501, and the experts at £10,501. a nation in its foreign trade, it 308, with an adverse balance of £1,102, is a means of information on this subject 857, the idea of an established drain to which, on account of its impertance and found to be resting on a very substantial the unerring rosult to which it tends, can foundation-to be something so positive not be surrendered. All the uncertainty is, for instance, upon the great excess of quiring alarm, since, if it should go on our imports over one expects that the at this rate, it may reach the basis of the proof of the national impoverishment to liank of England, and, drawing it thence for export, may profoundly disturb the financial situation of the kingdom. The indications of a chronic outflow of the proclous metals are, therefore, of so grave a character as to fully justify the reviewer in exhibiting them to the pub-lic in a strong light, and in calling the collux a drain. That the English reopte so regard it is clear from the following carle despatch to the American press

> London, Aug 11 .- The Temes, in its financial article this morning, says:
> We believe Italy has obtained clse. where the amounts of bullion she requires, and the anticinated ".ithdrawala of gold from the Bank of England on Italian account, at any rate, are postponed. It is quite possible a bullion drain to America may begin at any moment, but at present, in spite of the withdrawal of buillon from the bank on Tuesday for America, it cannut be said that any drain has set in. The bank directors will be, no doubt, prepared to raise the rate of discount quickly on the least aign of a drain to America or claswhere, but, with the occasion of an Italian demand, for the present there appears to be no necessity for any action, at least in advance of open market "

> Various dispatches of the same general tenor have been coming from England in the last few weeks, all giving evidence that there is an uneasy feeling over there, caused by the approaching necesalty of obviating or preparing for an extraordinary outflow of specie in the second balf of the present year-an outflow likely to be much greater in excess of the inflow than it was in the first balf. If such an effice is not a drain, what is the use of dictionaries to give definition

of words ? As to England's balance of trade in the aggregate, let us tell the Leonomia what it does not seem even for an instant to have suspected—that the exports until recently have habitually exceeded the imports—that the drain of specie established in 1879, and continned ever since, is proof positive that the imports from that date have been exceeding the exports. The Board of Trade returns do not contain all the elements of the problem. Une illustrathat they remain away a fixed period, then are sent back, if not lost by repudiation, failure or like means; but mean while they yield an income in the shape of interest, which, as is generally admit-ted, has been for the most part paid in the United Kingdom. Feraemuch as philosophical stock broker, surveying the imports are valued in the ports of operations of the Stock Eactange, the ports of departure, in England's stat-istical regime, the imports in the record kept by the Board of Trade appear, relatively to the exports, much larger than they roally aro-in brief, the imports contain in their value the elements of ocean freight, insurance, commissions, and other items, which the exports do not. Allowance is always to be made for this radical difference in valuation. The caruings of foreign loans, of the carrying trade, of insurance f com missions, and the like, taking the form of imports of merchandise, may swell those imports in both value and quantity for above the ume of the statistically recorded, and thus apparent, volume of the exports yet the true and real balance of trade continue all the time in favour of Eng. land. Now, the almost unfailing test of an adverso balance of trade consists in the fact that the outflow is greater than inflow of specie. This test becomes conclusive when the effux, year after year, is larger than the inflax of gold and allver bo long as England is a creditor country, she receives more of the preclous metals than she pays out. When the becomes a debtor country, she finds It impossible, as the case is now, to retain her coin and bullion, and is com pelled by the necessities of her indebted condition to surrender specie at the de mand of the creditor countries which will not accept merchandles in payment.

by alignatizing it is a "dotected billact, arising from the application of this rule results from falling to collect and put with a difficulty which is not only unformed the facts which constitute the known on the stock exchange, but foreign flour. The supply of naturallo It certainly would not be infallible practically unknown in private trade. grain in provincial mar ets is also. to say that a nation which has sold the value of one hundred millions, and stockings would shake with laughter if bought the value of one hundred and he were teld that the consumers of a eleven millions, is therefore eleven mil-Hone infines without considering the place where and the rule by which the values were ascertained, and to what party or parties the profits of the trade belonged. But there can be no possibilbelonged. But there can be no possibilisary to resort to the shops. But this ity of mistake when the commercial ex- takes place among communities as a changes against a nation are making perpetual drafts on its money, instead of paying its debts by exports of other com-modities, and when it finds itself growing poorer and poorer in pocket, until like an unwise spendthrift, it has parted with all its cash. The balance of trade in favour of a nation is its income, the balance against it is its loss, and will be its ruin, if continued, the same as with a private individual. The man that trades with a profit grows rich; and it is only another truism to say that he who trades with less grows poor. The "detected fallacy" is the doctrine which questions those self evident truths, not loss true in application to a nation than to a private man Conclusive evidence that the balauce of trade is adverse-that the nation is buying more than it sells—is a steady drain of specie which no efforts can arrest. Buch is the evidence presented by England for soveral years past The facts, the figures, and the inductions support the general position taken by the reviewer in his Quarterly article, and negative the position taken by the writer in the London Aconomist.

BRITISH TRADE AND FOREIGN MARKETS.

(St. James's Gasette.)

The late Mr. Bagebot made the shrewd remark that the theory of national and international society framed for themselves by the founders of the English school of political economy was closely connected with the occupations of many of them on the Stock Exchange. It is, in fact, on the Stock Exchange that all which this class of theories assert of human nature is absolutely trae. It is there that a number of men are associated together, having no object whatever in view for the time except buying in cheapest market and selling in the dear-Among this eager population all ast. motives are for a while in abeyanon except a few; and these few act without friction to binder their operation and without disturbance of any sort. Everythire goes on as the English soonomist asserts that it goes on in the world outside. On the Stock Exchange profits vary exactly as the political economist supposes them to vary. If there is do-mand for a particular kind of security there is sure to be a supply of it, if only the form of merchandise imported into it be in existence. And in the mind of a closing of fereign markets. This is the the United Kingdom. Feraemuch as philosophical stock broker, surreying the command which we still retain of the arrival, and the exports are valued in probably germinated that famous theory of rent which has just been dragged through the mud in Iceland by politicians who, in the dulness of their will still believe themselves to be his disciples.

But the weak points of the Stock Exchange theory of life, and even trade, bave been gradually disclosing themselves of late years. A great number of writers, a few in England but many more in other countries, have been arguing that it is not true of individuals, and still less of nations. This theory, hot, asserts that men and communities in their commercial deatings are related to one another as are deslets on the Stock Exchange; and the system of unrestricted Free Trade is wholly founded on this assumption. But the assertion is net maintainable, except within restrictions which ecossionally deprive it of all itsimportance. The point is well illustrated by a remark made the other day by one of our correspondents. On the Stock Exchange, if a man has anything to sell which has any value at all, he is sure to find a buyer. But this is not true of trade outside. The merchant who wants to buy can always find somebody to sell if the commodity he wants is in existence; but the manufacturar who wishes to sell casnot always find a purchaser. The scoret of success in business is to be a good salesman. Great cleverness, great knewledge of human nature, great

instead of acting its test diplomatic and position of the barrest has materials political ability to the negotiation of affected trade and rates improved a structure commercial treaties, entimets this duty to ting on Wednesday, and a fundarlings, and all but openly declares ther shilling on Friday. The advance that it regards the undertaking as of no which would have amounted to see particular importance, it is earning the character which among trading firms is known as the character of a bad sales. men; and a trading first deserving the name is on the high road to the insolvency court. In the search for markets to absorb its

produce, each community has to cope The Northern English manufacturer of he were told that the consumers of a particular district were earnestly destrous of reviving or keeping alive the knitting of stockings for domestic use, and were preparing so to improve the domestic industry that it should be no longer neceswhole on the largest scale; and, what is more astenishing, with the greatest success. The preference for articles of home manufacture peaces among individuals as an amiable weakness at best; but in nations, in simost all nations other than this, it reaches the height of a passion. It Is title feeling, more and more cherished everywhere, which has closed against us, one by one, almost all the markets of the ofvillzed world. When Great Britain first threw down its own barrier of customs duties, the fron ware and calico of the continent hardly deserved the good repute which homespun cloth and home kultted stockings once bore in England as compared with commodities produced by machinery. For the stockings and the cloth, if dear, were good, but French and American calico and iron were both extremely bad and excessively dear. Nevortholoss, so strong was the preference for manufacturing at home that all the energies of the community were thrown lute the improvement of the domestic processes, until at last the domestic manufactures of the United States and France are actually competing with our own in markets open to both. The enormous mistake we have made is in supposing that the door and bad manu-Actures of whole countries would give way to goods of British origin just as the hand foom and the knitting needles have given way to the power loom and the stocking frame. We altogether failed to make allowance for the strength of the sentiment which, among nations, creates the preference for home productions. The blunder is connected with some special moral weaknesses of the founders of our Free Trade. They had almost no patriotism. They regarded it as the sham virtue of Tories, and they went out of their way on all occasions to decry and discredit it. Nevertheless, it is a form of this virtue which, by the hold it has on other nations, is reducing us to insolvency. If it had been better understood among us, British statesmanship would at all events have better seen its way, and might have saved us from many daugers which some among us regard as far more serious than national humiliation-peell of ever falling wages, and peril of ever diminishing profits.

Only one cause has partially saved British trade from the dissaters that have impended over it from the successive markets of harbarians and half barbarians. As the Querterly Review has pointed out, it is India which came to the rescue, taking in 1880 twenty millions of our guods instead of thirteen. It is worth while recollecting that the presorvation of this great market is entirely owing to the late Government, which prevented its being shut against us by a protective duty imposed on the plea of revenue, and which was at the time violently attacked for this immeasurable service by almost all the leading mombers of the present Ministry. But no-thing can be less sale than the barbarous markets. Who will undertake to predict that China and Japan will always romain open to British manufactures? They have statesmon just as able as ours, and just as well acquainted with human nature (as may be seen from the extraordi-narily clever letter of the Chinese Grand Secretary on the subject of opium); and those stateemen are in their lients just as anxious that the countries to which they belong should coase to be dependent on the foreigner as the foreigner is to sell his goods to them. Even the African negro is said to be taking more and more of the red cloth which his soul loves from the Americans, and whon the negro full him the case of the Biltsile manufacturer will be bad indeed.

An Imperial decree has been Issued by the Care for escouraging the colorization of Nova Zemble by Russian trades. It greats 350 roubles and freedom from taxthat, in the previous eleven years, 1863— will not accept merchandles in payment. great knewledge or numan nature, great 350 roubles and freedom from tax75, there is only one case of such an adThe international balance of trade is activity, and no little pushing are needed
verse balance of the precious melals—in now against England, and we perceive in order to command a market for your
1872, when the imports were £29,606,012 no present method by . .lob it could he geoda. The difficulty of the day is to
getter with the right of returning to his
next who may settle in Norn Zenda, the
getter with the right of returning to his
loss of only £72,819. This is very difthe temporary effect of which upon her ilJi-covered by the manufacturer who, in the coolony. A RUINED HARVEST

London, 19th .- The Herk I en ! press says the past week has bee got general disaster an I min to the harry. which would have amounted to severa shillings had Thursday's weather con tinued, was checked by Friday's sea, shine. The savance in the Province was a shilling beyond that in Londo. Of the few samples of the new cool. offering, nearly all had sprouted. You whoats are two shillings and floone shilling to one and surjence bette. nothing. The port markets are therefore greatly strained, stocks on eitherside of the Atlantic being in stron. hands. The supply here cannot exceed the demand until growers in America forward their now crop in sufficient b to overpower Atlautic speculators

Dublin, 29th.-Tue destruction : crops by rain in various parts of Ire.s. is very great.

QUEBBO PROVINCIAL EXHIB TION.

A circular issued by the authorities the Quebeo Provincial Exhibition, which will open at Montreal on the 14th of the

tember, says :-The Permanent Exhibition Committee the Province of Queben have much tire. of agricultural implements and machiners that owing to the liberality and proliments manifested by the Olty Council of Montreal and the Park Commissioners in permitting the use of a large portion ... Mount Royal Park for exhibition purpose. they are enabled this year to provide accable permanent buildings for the display of agricultural implements and machiner in motion. The additional sparion the park at the duposa, of the committee will be from fittee to eighteen acres, and will be connected with the Provincial Grounds by a selection. stantial bridge spanning Mount Royal avenue. The Agricultural Implemen Hall will consist of four special buildings, with extensive connecting corridors (which are now being constructed at a cost of over \$25,000), two of which are to be and a part available. be set apart exclusively for anthus chareto be set apart exclusively for anthus charety as may require to be exhibited a motion. Four lines of shaiting will be provided in these two buildings underneath the fluoring. The shaiting will to 25 faches, exact claimster, and the special surevolutions per minute. The other two balldings, with the connecting corriders, will be devoted to implements and machines not required to be shown in man chines not required to be shown in mu-tion. In addition to the above ample outside space will be pro-vided for such embliors as may prefer to show their implements in the open air. If desired to be shown in motion, these our also be connected with the motive power provided by the commuttee. As no charge is made for space in this department (the entry fee being only one dollar), manufacturers of agricultural machinery will readily see the very great advantages of exhibiting under such favourable circumstances, and the com-mittee considently expect to see at the approaching archibition to hast collect of approaching exhibition the best collector of agricultural implements that has enbeen shown in the Dominton. Entired most be made on or before the 1st of

HON. WILLIAM MACDOUGALL > MANITOBA.

At a banquet given in boson of rece ntatives of the Northern Parise Railway at Wisnipeg on Tuesday evening lest Uc Hon. William McDougall, U.B. MP., o this city, responded to the "House" this city, responded to the "lifecsec". Commons." In the course of his speece Mr. McDougall said:—"There was only one regret which he felt as the result of his visit. He had met many energett, enterprising men here, but they were no that are to be, and corner lots. This speculation was perhaps proper enough it they had diggers and delivers in every part of the country, and every homestead filled to give these rallway gentlemen-traffictur their road. But if he had seen more farmers, he would have been much better pleased. This was, however, to experience often met in new countres experience often met in new constreis and Manitoba, was undergoing a staff through which all must pase; but there was this to say about it: it evidences the belief and confiction of the specialors in the country by their investing capital here before the country was developed. Alialon was then made to our lands, and be start that the matter appeared to him to rewith the two Governments, and he that the matter appeared to him to rewrith the two Governments, and him weighty, if not resemble friend, Mr. Norquay, had told him that we ought to gramm our public lands within the Province, when, doubtless, he would put up the price to a good figure, and Sad a revolve from them. For himself he was propered to vote that all lands not otherwise granted already, should be given free to the Government of Manitoba to administrate. As it was, he had appertained that tor. As it was, he had ascertained that the Dominion Geverament had not in coived as much for the lands as their survey and meon for use tands as their for year and administration cost. If Mr. Nor-quay would undertake their administration, he for one would hold up both hat it to give them to Manitoha. He would feel detain them longer, and after again at measure at helica nevers? pressing his pleasure at bring press.

		• •	<u> </u>)USTRI	
TORONTO PRICES (CURRE	IT.	011 \$,
			O d Oll. Imperial gall, i.	(a) <u>(d)</u> (a) (3)	11
GROCERIES			Lard, ettra No. 1. Linesed, pop	11 10	
, γ. f. t.lp	80 SS 44	हैं। है	ellive.		
ta tak ay ina mataké ay ina matang	21 M	2	Halad quist, ser care	1 % 20 1	
Bieste Bristitelle noice		72	Whale, redoed Specific Lucrentine	14	1
to the per light to the second second per lighter to the second per li	5 .5	3:1	PAINTS ETC	* 0	· [
ne, Tayer, No	2 40 @	2 (a) 3 (a)	White Lead, grunne, in oil,	2.01	ا ہے.
Falcatist bem		111	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
· old	(1)	110	" Dir	. 41 /20 6	3
1 state and trees a	CO TO	ω W	Red lead Venetian Red, English Vellow Ochro, French	100 100 2	33
Sichner.	42 9	- 44	Whiting	2 17 16 2	8
at Pt ra.	52 d	f.j.	WOOL Fleece, per 1b		
is ther 	(i) iii	6) 65	Extra	21 6	223
; c, 103 m bare, \$6 10	otj 🤰	nj)	HIDES AND SKIN	31 b / \$.	-22
##ICF#.	16 #	-	Steers, 60 to 901's , per 1b		(Q)
i ligace consultation per lib	20 S	17 25 62	Cured and inspected	(i) (i)	10 14
reer, ground Jamaica, rest	25 4	35 27 1 (6	Lambs, cured	(i) 🚁	Ę)
'. tmege lager, black	11 4	15	Shearlings Tallow, rendered	តំ ង ពី អ៊	Ni d)
white	17 50	(I)	LEATHER	0 🛥	3
re ro Rico, per la	(M @		Spanish Sole, 1st anality, all	21 @	•
l-light	11 a	02) 10)	weights, per lb., (4 mouths) Spanish Sole, No. 2 Slaughter, madium		35
diath's t'et Lust	112 0	11)	Slaughter, medium light Ruffalo		352353536
ing common to good	N #	45	llamess	33 6	35
fine to choicest.	12 4	섌	Upper, No. 1, heavy light and medium Kip Skins, French	31 00 00 1 40 00 1	45
: is arell, common to fact. : area and Searhong. : long, cook to fine : sag liyasa, cummon to cool	40 # 33 #	65 65	Poglish Hosaestia	70 ga 30 ga	9) 60
ned 117909, CVERROR (O	27 .	40 69	Veals Hemlock Calf (25 to 20 lbs.) to	70 🐱	75
stra ebotes	8 .	63	dos. per 1b	65 <i>(</i>)	70 1-1
"stonges mediam to used.	40 	47	French Cell Splits, Large, per 15	1 15 👑 1	1 45
introducer medical to and some to an additional some to additional some to additional some to an additional some to additional som	\$ \$	55	Boameliel Cow, per foot	2) 6	2X 18
nijerial	273 🕟	₩	Patent Pebble Grain	17 19	20 15
NEACON MAYERACTI	urto. Si 🐠	42	liuff Russetts, light .	16 es 40 es	18 60
ink Western Leaf, good to	35 de	45	Uniabler Surach	5 🚅	6
tricht surte, good to fine.	28 A 13 A 14 M	84 (4)	PRODUCE.	ų 🔐	7
HARDWARE.	38 2	45	FLOUR.		
-10			Superior Extra, per bbl, f.o.c. Katra	5 W 😝 🖯	5 TS 6 GG
Fig. k, per lb. (four months)	24) # 26 #	25 j 25	Fancy Strong linkers	8 00 🔐 :	0 U0 5 70 8 OV
CUPPER.	17 #	:0	Spring wheat, extra Superfine	LO 👜	·ω
uret	(6) #	20 06	Onimeal Cornmeal, small lots .		4 30 3 40
CUT MAILA.			Pall Wheat, No. 1, f.o o	1 25 @	1 27
icte 60 dy. per kog of 100 lbs., - but ent American pattern Fdy. and 9 dy.	2 (6 🏚	00	Pall Wheat, No. 1, for e No. 2 No. 2 No. 3 Spring Wheat, No. 1 No. 2 No. 3	1 17 👛	1 25 1 19 1 25
idy, and 9 dy, idy, and 7 dy, idy, and 5 dy,	2 to #	00	Spring Wiest, No. 1 . No. 2	1 23 0	1 25
41	4 15	89		3	40
tie 5 dy. cold cut Canada	3 15 .	00	Barley, No. 1	100 mm	288
dy cold cut Canada pointed MORER MAILE.		w	Barley, No. 1	70 #	01 (0 16
(Discount, 40 to 45 pe			lye, new	70 🗃	72
beremmall tastaf an industrated		22	Corni	ø <i>•</i>	61
Hert No. 22 · · · · · · · · · · · · · · · · · ·	S)	6		15 @	19
lert No. 26 Lert No. 25	6) #	6)	Butter, choice dairy Butter, shipping, per ib Butter, erocks, city trade	16 # 18 # 22 #	17 19 24
frox.	_	#1 (%	Choose		12
remmeries	U9 4*	88	Choose	22 (0) 20 2	1 04 12 12 12
Vara Realla	99 00	23 ထ္က	Baces, long clear Cumberland cut Breakfast Smoked	ώ	112
ar, per 100 lbs	ាំស្លី 🦸	200	Hams emoked.	iš .	[3]
Band	2 70	8855538	Lard Kees	18 * 13 *	įįį
Trees Little-Sigilar	4 Z =	w	11094, zew	13	2
* 3	3 (2)	ÚΟ	SALT, ETC.		
" Plainen	360	SS SS	Liverpool, coarse, per deg	78 .	. 50
illainan Boars Head	100	Ű	Liverpool, coarse, per bag Canadian, per barrel Stoved	75 @ 00 # 140 #	90 1 60 1 60
Rainen Boars Head LRAD. Lr. per 100 lbr. (at four	350	œ	BOOTS AND SH	1 40 40 1 40 44 MSS.	1 60
Haliann Boars Head IRAD. Line 100 lbr. (at four mostles)	350	(10 8)	BOOTS AND SHO Men's Call Roots Kip Hoots	1 #0 # XES.	1 60
Hainen Hainen Hoars Head LEAD, Lear, per 100 lbr. (at four months) st teet	350	UD 8}	BLOTES AND SHI Men's Chif Ploots Kip Hoots "Split Steems	1 #0 # XES.	1 60
Halinan Boars Head LEAD, LEAD, Lead LEAD, LEAD, Lead LEAD, L	350	5) 6 6 6)	BLOTES AND SHI Men's Calf Roots Kip Loots Split Segas A C I Men's Congress and Balmoral	149 # 149 # 155 # 175 # 175 # 176 #	100 100 400 300 300 300 300 100
Walliam Walliam War, per 100 lbr. (at four months) we teet teet teet Rapelty Merfal	350	(5) 6 6 6)	BLOTES AND SHI Men's Calf Roots Kip Loots Split Segas A C I Men's Congress and Balmoral	149 # 149 # 155 # 175 # 175 # 176 #	106 109 400 300 300 300 110
Walfer Illainen Illainen Illainen Illainen Illainen Illand IRAD. LEAD. LEAD. LEAD. LEAD. LEAD. LECT. RABBITT MPTAI AXEG. Tmberman's Pride	3 50	5) 6 6 6) 16 12; 7;	Biored Boots And Shi Men's Chif Roots Kip Roots Split Steems Men's Compress and Balmoral Boye' Kip Roots No. 1 Steems Split Galters and Balmorals Woman's Relmorals and Gal	1 40 40 125. 2 50 40 40 125. 2 50 40 40 125. 2 50 40 40 125. 40 125. 40 40 12	1 60 1 60 3 60 3 60 3 60 3 60 3 60 3 60 1 70 1 75
wasers literary liter	3 50 B	5) 6 6 6) 16 12; 7;	Biored Boots And Shi Men's Chif Roots Kip Roots Split Stages Men's Congress and Balmoral Boys' Kip Roots No. 1 Stoges Split Galters and Balmorals Women's Relmorals and Gal ters, paged	1 40 8 MS.	1 60 1 60 3 60 3 80 3 80 3 80 1 73 1 73 1 70
Illainen Illainen Illainen Illainen Illainen IRAD. F.r. per 100 br. (at four months) ist teet teet RABBITT MPTAI N. 1 N. 2 N. 1 Tmberman's Pride rection CURDAGE.	3 50 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	00 66 66 10 10 20 10 20 10 90 10 90 10	Blotted BOOTS AND SHE Men's Calf Roots Split Stepas A. 1 Men's Congress and Balmoral Boys' Kip Boots Re. 1 Stepas Gallers and Balmorals Womens' Balmorals and Galters, peggod Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Hallers' and Uniters M. B.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 60 80 80 80 80 80 80 80 80 80 80 80 80 80
Margan Illainan Illainan IRAD, LEAD, months) Marchest Lect RABBITT MFFAI AND I TEMBERMAN'S Pride Lectless Lect CUEDAGE. Linch Linch LEAD, COEDAGE. LEAD, COEDAGE. LEAD, COEDAGE. LEAD, LEAD, COEDAGE. LECTLESS LECT	3 50	00 66 66 10 10 20 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Blotted BOOTS AND SHE Men's Calf Roots Split Stepas A. 1 Men's Congress and Balmoral Boys' Kip Boots Re. 1 Stepas Gallers and Balmorals Womens' Balmorals and Galters, peggod Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Hallers' and Uniters M. B.	00 00 00 00 00 00 00 00 00 00 00 00 00	100 100 100 100 100 100 100 100 100 100
manus Illainan Illain	\$ 22 as	00 6 6 16 12 7 10 20 0 10 0 13 0 13 0 13 0	Bloved BOOTS AND SHI Men's Chif Roots Kip Roots Split Steems No. 1 Steems Split Gaiter and Baimoral womens' Baimorals and Gaiters, paged Womens' Halmorals and Uniters M. S Miseas' Balmorals Miseas' Balmorals Miseas' Balmorals Miseas' Balmorals Clail Almorals Miseas' Balmorals Miseas' Balmorals	00 00 00 00 00 00 00 00 00 00 00 00 00	106 4 50 50 50 50 50 50 50 50 50 50 50 50 50 5
manus Illainan Illain	\$ 22 as	10 254 10 254 10 254 10 131 10 254 10 254 10 254 11 20	Bloved BOOTS AND SHI Men's Chif Roots Kip Boots Split Stegas A. 1 Men's Congress and Balmoral Boys' Kip Roots No. 1 Stegas Split Uniters and Balmorals womens' Balmorals and Uniters, paged. Womens' Balmorals and Uniters M. S. Womens' Hatte Hatte Chil-is' Balmorals Hatte Chil-is' Ilatmorals. Turned Cack, per don		106 1 40 4 50 50 50 50 50 50 50 50 50 50 50 50 50 5
Illaiene Ill	3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6) 66 66 16 12 7 10 20 10 60 13 12 20 20 20 20 20 20 20 20 20 20 20 20 20	BOOTS AND SHE Men's Chif Roots Kip Hoots Split Steems A. 1 Men's Congress and Belmoral Boys' Kip Roots No. 1 Steems Split Gallers and Belmorals Womens' Belmorals and Usi- ters peged Womens' Halmorals and Usi- ters M. B. Womens' Halmorals Hette Chil-is' Intercords Hatte Chil-is' Intercords "Hatte Turned Cack, per des	00 00 00 00 00 00 00 00 00 00 00 00 00	106 1 40 4 50 50 50 50 50 50 50 50 50 50 50 50 50 5
Illaiene Ill	3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6) 66 66 16 12 7 10 20 10 60 13 12 20 20 20 20 20 20 20 20 20 20 20 20 20	Blotted BOOTS AND SHI Men's Calf Roots Kip Boots Split Stegas A A 1 Men's Congress and Balmoral Boys' Kip Boots No. 1 Stegas Split Uniters and Balmorals and Uniters, paged. Womens' Balmorals and Uniters M. B Womens' Hatte Child' Balmorals Hette Child' Intmorals Turned Cack, per des 100088 Prices to Country or C.	100 se 1 100 se 1 150	1 60 4 00 4 3 5 00 5 3 5 00 5 5 5 00 5 5 5 00 5 5 5 5 5 5 5 5
Illaiene Ill	3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6) 66 66 16 12 7 10 20 10 60 13 12 20 20 20 20 20 20 20 20 20 20 20 20 20	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss And I Men's Congress and Balmoral Boys' Kip Boots Re. I Stepss Galler and Balmorals Womens' Balmorals and Galters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals I Gent Balmorals Missea' Balmorals Missea' Balmorals Liguia Liguia Turned Cask, per doz Liguias Prices to Country or Country or Country or Country or Country or Country or Manata	100 st 140 st 140 st 125 st 12	1 4 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Illaiann Ill	3 3 5 0 6 4 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6) 66 6) 10 20 10 20 10 90 0 13 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss And I Men's Congress and Balmoral Boys' Kip Boots Re. I Stepss Galler and Balmorals Womens' Balmorals and Galters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals I Gent Balmorals Missea' Balmorals Missea' Balmorals Liguia Liguia Turned Cask, per doz Liguias Prices to Country or Country or Country or Country or Country or Country or Manata	100 st 140 st 140 st 125 st 12	10 4755311811 1 9 6955819550 273688
manus Illainan lionts Head LRAD, Lr., per 100 lbr. (at four months) test RADRITY MPTAI LL. RADRITY LIONANT MANUS MILL. POWBER. POWBER. Powbering listing Cam. Powbering listing, English LT sporting, loose MINDOW GLASS LAND William Cam.	3 50 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(S) 68 69 16 127 10 9 10 131 1 200 3 75 10 1 1 70 5 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss And I Men's Congress and Balmoral Boys' Kip Boots Re. I Stepss Galler and Balmorals Womens' Balmorals and Galters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals I Gent Balmorals Missea' Balmorals Missea' Balmorals Liguia Liguia Turned Cask, per doz Liguias Prices to Country or Country or Country or Country or Country or Country or Manata	100 st 140 st 140 st 125 st 12	10 4755311811 1 9 6955819550 273688
Illainen Illainen Illainen IRAD, LEAD,	3 5 5 6 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss And I Men's Congress and Balmoral Boys' Kip Boots Re. I Stepss Galler and Balmorals Womens' Balmorals and Galters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals I Gent Balmorals Missea' Balmorals Missea' Balmorals Liguia Liguia Turned Cask, per doz Liguias Prices to Country or Country or Country or Country or Country or Country or Manata	100 st 140 st 140 st 125 st 12	10 4755311811 1 9 6955819550 273688
Illainan Illainan Illainan Illainan Illainan ILRAD, LRAD, IRO III (at four months) IRO III (at four months) IRO III (at four months) IRO III (at four manths) IRO I	3 3 50 6 4 3 50 6 4 3 50 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(8) 66 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss And I Men's Congress and Balmoral Boys' Kip Boots Re. I Stepss Galler and Balmorals Womens' Balmorals and Galters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals I Gent Balmorals Missea' Balmorals Missea' Balmorals Liguia Liguia Turned Cask, per doz Liguias Prices to Country or Country or Country or Country or Country or Country or Manata	100 st 140 st 140 st 125 st 12	10 4755311811 1 9 6955819550 273688
Illainen Illainen Illainen Illainen ILRID, LRID, LARET AXREL LICON LRIDAUR LRIDAUR LRIDAUR LRIDAUR LRIDAUR LRIDAUR LRIDAUR LRIDAUR PUWBRE LRIDAUR AXREL LRIDAUR AXREL LRIDAUR LRIDAUR AXREL LRIDAUR AXREL LRIDAUR AXREL LRIDAUR AXREL LRIDAUR AXREL LRIDAUR AXREL LRIDAUR LRIDAUR AXREL AXREL LRIDAUR AXREL AXREL LRIDAUR AXREL	3 5 5 6 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	00 6) 6 6) 16 127 10 9 10 131 1 200 1 3 7 1 2 10 1 2 1 2	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss And I Men's Congress and Balmoral Boys' Kip Boots Re. I Stepss Galler and Balmorals Womens' Balmorals and Galters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals I Gent Balmorals Missea' Balmorals Missea' Balmorals Liguia Liguia Turned Cask, per doz Liguias Prices to Country or Country or Country or Country or Country or Country or Manata	100 st 140 st 140 st 125 st 12	11 47733311111 1 722111 6 11444243761111
Illaiean Illaiean Illaiean Illaiean IRAD. LEAD. LEAD. LEAD. LEAD. LEAD. LEAD. LEAD. LEAD. AXRG. TIMBETMAN'S Pricis LECT LEAT. AXRG. TIMBETMAN'S Pricis LECTION LECTI	250 6 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(9) 6) 6 6 6 16 22 7 10 9 9 9 9 10 13 1 22 2 2 3 7 10 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss No. 1 Men's Congress and Balmoral Boys' Kip Boots No. 1 Stepss Gallers and Balmorals and Gal- ters, peged Womens' Balmorals and Gal- ters M. S Womens' Balmorals and Uni- ters M. S Gent Balmorals Misses' Balmorals Hatte Childs' laimorals "Turned Cack, per doz 1 Marie Turned Cack, per doz 1 Mendy Prices to Country or Co. 1 MPERIAL MEAST Kyo and malt Brandy Wine, Port "Sherry "Native Rum, 40 o.p. "Shamacia Old Tom, eases Bitters, J. Bull, per case Ginger Wine, No. 1 Ramberry Syrup Ramberry Syrup Holland Ulin, red	100 at 10	11 47733311111 1 1221111 6 1144224376111131
Illainan Illain	250 6 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(9 6) 6 6 6 16 2 7 1 1 2 2 2 3 5 1 7 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	BOOTS AND SHE Men's Calf Roots Kip Boots Split Stepss No. 1 Men's Congress and Balmoral Boys' Kip Boots No. 1 Stepss Gallers and Balmorals and Gal- ters, peged Womens' Balmorals and Gal- ters M. S Womens' Balmorals and Uni- ters M. S Gent Balmorals Misses' Balmorals Hatte Childs' laimorals "Turned Cack, per doz 1 Marie Turned Cack, per doz 1 Mendy Prices to Country or Co. 1 MPERIAL MEAST Kyo and malt Brandy Wine, Port "Sherry "Native Rum, 40 o.p. "Shamacia Old Tom, eases Bitters, J. Bull, per case Ginger Wine, No. 1 Ramberry Syrup Ramberry Syrup Holland Ulin, red	100 at 10	11 47733311111 1 1221111 6 1144224376111131
Illainan Internation Priole Internation	250 6 400 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	00 65 66 16 127 17 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SM Boots AND SM Men's Chif Roots Kip Hoots Split Stepss A. 1 Men's Congress and Belmoral Boys' Kip Roots No. 1 Stogns Split Gallers and Belmorals and Usiters paged Womens' Belmorals and Usiters M. S Womens' Halmorals and Usiters M. S Womens' Halmorals and Usiters M. S Womens' Halmorals Hatts Child' Intmoorals Batts Turned Cask, per dos LYUGORS Prices to Country or Casters Irrand Research Research Rum, 60 o.p "Sherry Katire Rum, 60 o.p "Samacia Old Tom, cases Bitters, J. Bull, per case Ginger Wine, No. 1 Ramberry Syrup Holland Uin, red Research Brandy, qta Prices would Research		11 47733311111 1 1221111 6 1144224376111131
Illainan Inter Inter Illainan	25.50 5 435 6 2 2 2 2 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	60 6 6 6 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE Boots		11 4777371111 1 7727111 6 7738262333623628638362666
Illainan Intert	25.50 54556	00 65 66 16 127 17 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE Boots		11 4777371111 1 7727111 6 7738762373828368888888888888888888888888
Illainan Intert	250 5455 6 222 13 10 10 10 10 10 10 10 10 10 10 10 10 10	00 65 66 16 127 17 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE Boots		11 4755311111 1 7111111 6 1144424375000000000000000000000000000000000000
Illainan Interior Interi	2550 54556 222 12 10 10 10 10 10 10 10 10 10 10 10 10 10	00 65 66 16 127 17 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE BOOTS AND SHE Men's Chif Roots Kip Hoots Spilt Stepss A. I Men's Congress and Belmoral Boys' Kip Roots No. I Stopss Spilt Guilers and Belmorals and Usiters paged Womens' Belmorals and Usiters M. B. Womens' Halmorals and Usiters M. B. Womens' Halmorals and Usiters M. B. Womens' Halmorals Misses' Balmorals Hatte Chil-is' Interess Turned Cack, per des Hatte Chil-is' Interess Friese to Ometry or Chimes Turned Cack, per des LYPERIL MESST Rye and malt Brandy Wine, Port Native Rum, 20 o.p. Rampberry Syrup Holland Uin, red Green Irish Whiskey, in word Rootch Brandy, qts pts Lype Champagne, qts Holland Gin Champagne, qts Holland Gin Lych Champagne, qts Holland Gin Lych Champagne, qts Holland Gin Lych Champagne, qts	000 000 000 000 000 000 000 000 000 00	11 47733311111 1 1121111 6 1144225781800000000000000000000000000000000000
Illainan Illainan Illainan Illainan Illainan ILRAD, LRAD, TROST STATE TOTAL	2550 54556 222 12 10 10 10 10 10 10 10 10 10 10 10 10 10	G 65 6 6 16 22 7 17 17 17 17 17 17 17 17 17 17 17 17 1	BOOTS AND SHE Men's Calf Roots Kip Roots Split Stepss No. 1 Men's Congress and Balmoral Boy' Kip Boots No. 1 Stepss Split Gallers and Balmorals and Galters, peged Womens' Balmorals and Uniters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals Misses' Balmorals Hatts Callds' Ralmorals Batts Turned Cack, per don Hatts Turned Cack, per don Houses' Country or Coun	000 000 000 000 000 000 000 000 000 00	11 4355331211 1 122111 6 1144223300300000000000000000000000000000
Illainan Internation Inte	2550 54556	0 6 6 6 6 10 12 7 10 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE BOOTS AND SHE Men's Call Floots Split Segas No. 1 Stegas No. 1 Stegas Split Gaiters and Balmorals Womens' Balmorals and Gaiters M. S. Gent Falmorals and Uniters Messes' Balmorals Womens' Balmorals Hatte Child' llaimorals Friest to Country or Co. IMPERIAL MEAST Ry and malt Brandy Wine, Port Sherry Native Rum, 40 o.p. Native Rum, 40 o.p. Planacia Old Ton, cases Bitters, J. Bull, percase Ginger Wine, No. 1 Ramberry Syrup Iteliand Uin, red Trish Whiskey, in word Rootch Brandy, ets Ipts Claret Uglness Petter, ets. Chamjague, ets Holland Gin Put Holland Gin Chamjague, ets Holland Gin Put Holland Gin Country Chamjague, ets Ipts Claret Uglness Petter, ets. Chamjague, ets Holland Gin Country Put Holland Gin Country DUNDAS COTTON	1 1 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 47753311211 1 122111 6 7.38000380000000000000000000000000000000
Illainan Internation Inte	2550 54556	0 6 6 6 6 10 12 7 10 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE BOOTS AND SHE Men's Call Roots Split Segas No. 1 Men's Congress and Balmoral Boys' Kip Boots No. 1 Stegas Split Gallers and Balmorals and Galters, peged ters, peged Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals and Uniters M. B. Womens' Balmorals Miseas' Balmorals Hatts Callds' Inamorals Batts Turned Cack, per don 1900085 Prices to Country or Co. 1900085 Rum, 60 o.p. No. 1 Ramberry Syrup Itoliand Uin, red Itoliand Uin, red Ipts Claret Unineas Perter, qia. 1918 Claret Unineas Perter, qia. 1918 Hollead Gin DUNDAS COTTON	1 1 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 4355331211 1 122111 6 1144223300300000000000000000000000000000
Illaiean Incompan's Prise Incompan's Prise Incompanis In	2550 54556	0 6 6 6 6 10 12 7 10 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE BOOTS AND SHE Men's Chif Roots Spilt Stepss No. 1 Men's Congress and Balmoral Boys' Kip Roots No. 1 Stepss Spilt Galters and Balmorals and Galters and Balmorals and Galters and Balmorals Womens' Balmorals and Uniters and Balmorals Misses' Balmorals Misses' Balmorals Hatte Chills' llalmorals Hatte Chills' llalmorals Price to Country or Country	SS. SEETING SEEDS OF THE SEEDS	11 4355331211 1 122111 6 1144223300300000000000000000000000000000
Charces Last Steel Last Stee	250 54556	0 6 6 6 6 10 12 7 10 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10	BOOTS AND SHE BOOTS AND SHE Men's Chif Roots Spilt Stepss No. 1 Men's Congress and Balmoral Boys' Kip Roots No. 1 Stopss Spilt Gallers and Balmorals and Galters M. B. Womens' Balmorals and Galters M. B. Womens' Halmorals and Uniters M. B. Womens' Hatte Child' lalmorals Hatte Child' lalmorals Prices to Country or Competed to Country or Country or Country of Coun	SE SE CONTROL DE SE SE CONTROL DE SE	11 4355331211 1 122111 6 1144223300300000000000000000000000000000
Charces Last Steel Last Last Steel Last Last Steel Last Last Last Last Steel Last Last Last Last Last Last Last Last	250 54556	G 65 6 6 16 22 7 17 17 17 17 17 17 17 17 17 17 17 17 1	BOOTS AND SMI BOOTS AND SMI Men's Chif Roots Kip Hoots Spilt Stepss No. 1 Men's Congress and Belmoral Boys' Kip Roots No. 1 Stopss Spilt Guilers and Belmorals and Gallers Hers peged Womens' Belmorals and Uniters M. B. Womens' Halmorals and Uniters M. B. Womens' Halmorals Misses' Balmorals Misses' Balmorals Hatts Chil-is' Inateorals Hatts Chil-is' Inateorals Friese to Country or C. Inpuns Price to Country or C. Inpuns Rye and malt Brandy Wine, Port Native Rum, 90 op. Ramberry Syrup Holland Un, red June Grandy, qts Pus Chamjagne, qts Holland Gin DUNDAS, Chamjagne, qts Holland Gin DUNDAS, GREY HOMBSTICS, TICKINGS, DKNIMS, CHECKED	SS STATE STA	11 47757311111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cohe (four months). Late of the state of th	250 54556	0 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOOTS AND SM BOOTS AND SM Men's Chif Roots Kip Hoots Spilt Steems No. 1 Men's Congress and Belmoral Boys' Kip Roots No. 1 Men's Congress and Belmorals Womens' Kip Roots Tern peged Womens' Halmorals and Uniters M. B. Womens' Halmorals and Uniters M. B. Womens' Halmorals Misses' Balmorals Misses' Balmorals Misses' Balmorals Hatts Chil-is' Interess Turned Cock, per dox 100003 Prices to Country or C. Inpertal Meast Rye and malt Brandy Wine, Port Natire Rum, 90 op. Jamacia Old Tom, eases Bitters, J. Bull, per case. Ginger Wine, No. 1 Ramberry Syrup Holland Uin, red Interess Champagne, qis Holland Gin DUNDAS, Champagne, qis Holland Gin DUNDAS, CHECKED STRIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 47757311111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cohe (for menths). Car Street Cohe (for menths). Charcal Cohe (for menths).	250 54556 222 113 1010 1010 1010 1010 1010 1010 1	0 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOOTS AND SHE BOOTS AND SHE Men's Call Floots Spile Steepss No. 1 Steepss No. 1 Steepss Spile Gailers and Balmorals and Gaiters, pegeod Womens' Balmorals and Gaiters Misses' Balmorals and Gaiters Misses' Balmorals Misses' Balmorals and Gaiters Misses' Balmorals Misses' Balmorals Hatte Child' llaimorals Hatte Child' llaimorals Friese to Country or	1 1 200 000 000 000 000 000 000 000 000	11 4775711111
Cohe (four months). It is the control of the contr	2550 54556 222 25 13 10 10 10 10 10 10 10 10 10 10 10 10 10	G 66 6 6 1527 V200 133 9200 350540 785000 750500 25714812337 1117041241241233 1117041241241233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 1117041414141414141414141414141414141414	BOOTS AND SHE BOOTS AND SHE Men's Call Floots Spile Steepss No. 1 Steepss No. 1 Steepss Spile Gailers and Balmorals and Gaiters, pegeod Womens' Balmorals and Gaiters Misses' Balmorals and Gaiters Misses' Balmorals Misses' Balmorals and Gaiters Misses' Balmorals Misses' Balmorals Hatte Child' llaimorals Hatte Child' llaimorals Friese to Country or	1 1 200 000 000 000 000 000 000 000 000	11 4775711111
Cohe (for months). Cohe (for months) Traberman's Pride rections Traberman's Pride Traber	250 54556 222 113 10 10 10 10 10 10 10 10 10 10 10 10 10	G 66 6 6 1527 V200 133 9200 350540 785000 750500 25714812337 1117041241241233 1117041241241233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 111704141233 1117041414141414141414141414141414141414	BOOTS AND SHE BOOTS AND SHE Men's Chif Roots Kip Hoots Spilt Stepss No. 1 Men's Congress and Balmoral Boys' Kip Roots No. 1 Stopss Spilt Gent Palmorals and Galters M. B. Womens' Balmorals and Galters M. B. Womens' Halmorals and Uniters M. B. Gent Palmorals Missed' Balmorals Hatts Child' Inatmorals Prices to Country or C. IMPERIAL MEAST Rye and malt Brandy Wine, Port Sherry Kalive Rum, 80 o.p. Kamberry Syrub Holland Un, red Joseph Jo	1 10 00 00 00 00 00 00 00 00 00 00 00 00	11 4775711111
Charces STEEL Cohe (four months) Cohe (four months)	250 54556 222 113 10 10 10 10 10 10 10 10 10 10 10 10 10	S 66 6 6 127 420 133 928 50 140 1920 176 0000000 2318 233 21176 4012 122 35 122 5 6 8 10 10 5 3 2 1 1 10 122 5 6 8 10 10 5 3 2 1 10 122 5 6 8 10 10 5 3 2 1 10 10 10 10 10 10 10 10 10 10 10 10 1	BOOTS AND SM BOOTS AND SM Men's Chif Roots Kip Hoots Split Stepss No. 1 Stepss Split Grand Balmoral Boye' Kip Boots Womens' Kip Boots Grand Balmorals and Gallers paged Womens' Balmorals and Gallers M. B. Womens' Halmorals and Uniters M. B. Womens' Halmorals and Uniters M. B. Womens' Halmorals Missed' Balmorals Batts Turned Cock, per dos LYUGORS Prices to Country or C. Hatts Turned Cock, per dos LYUGORS Prices to Country or C. Hatts Wiles, Port Sherry Natire Rum, 60 op Wiles, Port Sterry Natire Rum, 60 op Rum Rum, 60 op Rum Rum Rum Rum Rum Rum Rum Ru	1 10 00 00 00 00 00 00 00 00 00 00 00 00	11 4775711111

WEEKLY REVIEW.

Ton sto, Aug. Hat, 1881. The weather has been intensely hot during the feet week, and the prospect 111 of a much to oblif run seems apparently as far off as ever. The country all lour here is reported as soffering very auch for sant of rain. The success of the Industrial Exhibition is now fully assured, and the prospect is that it will prove the most successful exhibition that has ever been held to Capada Merchante sufficipate a very large bushness duting its progress, as buyers will no doubt avail themselves of the very favourable rates effered by the various suilway lines. It is expected that not less than 150 000 people will visit the exhibition. There has ben considerable activity among m. lenery and fancy goods houses, who are showing an luimenso variety of goods. There can no

longer be eny doubt but that the bulk

of these trades for Unterio is through

Teronto houses. The tayers have taken advantage of their visit to the city to

make inquiry for dry goods, but dry

goods houses do not suit, into any great

rush until the excibition has been rably υμεποιί Stocks-Thostock market has been very quiet durling this fast week; very protacy the intense heat has had a mething to do with it Bank stocks show scarcely any change from last work's quotations, prices, if softling, have not been maintained. Commerce shows a decline of 4. Deminion 4. Federal 4. and Toronto 1. Montreal and Me chauts' nie cach offered I lower, while Unterlo is held I higher. The remainder of the list is unchanged. Losy and Savings Companies - These stocks are generally thin, but the market is wery quiet. Building and Lon has advanced § in bit. Freshold, §; Manitota, §, National Investment, §, Ontario Savings, 1, and Western Canada,

1 Donainton Savings is held 24 higher. On the other hand London & Canadian has declined 2 in bid, and Ontario Debeutur. A London Loau has advanced 4 in bld Insurence, etc.—Dominion l'elegraph Las advanced 2) in bid and Montreal I, or last work a quotations.

GROCESIES-There is no change worthy of note since last week, except in tobaccos, which have advanced in sympathy with leaf as much as 70 on some grades. The demand for teas continues good, and prices temain firm bugata are dull, with prices douldedly in favour of huvers.

HARDWARE-The fall reason is opening up well, and urders are coming in quite up to expectations. The firmuess in the English markets is giving the perchants here more back bone, hence there is not so much slaughtering being done as there was last spring Her fron hes advanced be per 100 lbs this week. It is quoted at from \$1.98 to \$2. Tin still remains firm at quotations.

Dayes-Business is not active, but the prospects of a good fall trade are good. Prices are generally firm and advancing, the exceptions being quinine, opium and morphice, which are lower. The fol-lowing are higher. Castor oil, oil lemon, oll wintergreen, oil rassafras, oil peppermint, gamboge, casary seed, cubebe and sloohol The rise in the last article carries with it all tinctures, spirits, esse and other preparations in which alcohol is used.

Oiga, Paints, arc .- The week has been marked by a sharp rise in spirits of tur-pentine, based on an active demand for all lute as soon as marketed. Lard oil is scarce and dearer Linsord oil has also advanced Leads and colours are without change.

Wook-1'be combing woul trade secret a little firmer, and a few transactions baye taken place during the pest week at above quotations btill holders are disinclined to sell except at extreme figures, and dealure are indifferent, expecting a lower range of prices before

Hinza and Saus-Por feel a there is a very active demand, the supply being barely sufficient to meet it. Sheepskins have advanced to 85c., and all offering are readily taken at that figure. For calfaking the season is about over and there are but few coming in. Tallow is firm at quotations and is in good demand

LEATER-Business for the present work has been quiet generally, but a larger business is likely to be done during the progress of the exhibition. l'rime tanuages of Spanish sole suitable for country work are scarce, as is also Canadian calf of every description. Tanners' material has sold freely and cod oil

has risen 2c and is firm at the advance. l'aoprez.-The market le very quiet, with but few transactions. Flour is in demand, but there is none offerlag. Wheat is quiet and steady, 5,000 bushels of No 2 fall wheat was offered on 'Change at \$1.35 without bids. On the street, fall wheat is quoted at from \$1.39 to \$1.32 , spring, \$1 30 to \$1.33 . barley, 750 In warehouses and elevators, on the 29th fall wheat, 17.152 bushels: spring wheat, ey, 18 353 bushels; peak, 651 bushels, the total bushels of grain in store being 36,357, as compared with \$3,030 bushels

on the 21nd lust. butter for export are holding off on display than formerly. Of the cost of

minute of glass greatly affects the market

TRADE WITH BRAZIL

To the Editor of the Vosteral Herald

Bin -The following, from the efficial returns received to-day, may be of interest to your readers :--

EXPORTE OF BLOGR PROX THE COUT OF BUILDA BRAZII, BUB THE MUNICUP JONE, 1961 Canada Tall bage. Liebou .. 61.50 bags. Total . .

For the months of May and June the exports of sugar from Billia were 192035 Legs, viz --

Canada Laited States Channel for orders Liveryool Lisbon 08/21 bags. 11.00 M : 11 Total 192,635 bag-

It will to seen that at the Port of Bauls, of which sugar is the chief expert Canada lias been Brazil's best customer during these two months

I am, sir, Your oldt servant, W. DARLET BENTLET. Consul-General Montreal, August 27, 1881.

HOW TO TELL GOOD BUTTER.

The legislature of Ohio recently passed a bill providing for the inspection of butter and the we, "and all substances having the resemblance of butter and chees," and of dairies and other places where milk is sold or butter or cheese manufactures, to be done by inspectors appointed by the Biate Board of siealth. The superintendent of inspectors of butter and cheese Mr. Robert (for. has launed as and cheese. Mr. Robert Orr, has issued a circular of instructions to his subordinates, giving information which may be of value to butter makers and buyers generally.

When butter is properly churned, both an to time and temperature, it becomes firm with very little working, and is ten-actions, but its most describe state is that of wary, when it is easily moulded into any snews and may be drawn out a considerable length without breaking. It is then at led glittedged. It is only in this state that butter pussees the tich nutty Savour and smell, and shows up a tich strour and smell, and shows up a tich wolden yellow culour which insperts 40 high a degree of pressure in entitle it, and which increases its value manifold

"It is not always necessary when it smells sweet to tasie butter in judging it. The amouth uncrious feel in subbling a little between the finger and thumb a preses at once its rich quality, the auty swell and rich atoma judicate a similar taste, and the bright golden distorag Cream-bulored surface shows he bigo state

f cleanliness. It may be necessary at times to use the trier, or even use it until you become an expert in using by take smell and subving

Small creches for four persons have been put into the streets of Boston to a new company The fair to any point within the city limits is 23 cents per passenger. The same scheme recently tailed in Philadelphia.

The violage in France last year is estimated by the British Vice-Consul at La Rochelle at 653.000,000 gallous, which, though more than one-sixth le excess of that of the previous year, was not much more than one-half the average of the last ten years. It is recknord that the vineyards in which the vines have been totally destroyed by the phyllogers amount to more than one and a quarter million acres, and that more than an equal extent is infested, though resisting the attack.

The report of the Government cinchous plantations in Southern India indicates the astonishing progress made pecting a lower range of prices before discussing progress made long. The demand for home consumption is improving and there is a good demand for super and extra wools. Quotations remain unchanged.

Illustes the automissing progress made alone allow allows allowed the valuable tree were first planted in that district twenty years ago. The number of trees now planted out is more than four and a half millions. At present the greater part of the back produced appears to be con-sumed in supplying the medical depots at (micutta, Bombay and Madras; but upwant of 3,000 pounds was last year sold to the public, and the annual yield s rapidly increasing with the growth of the trees. The actual profit last year on the capital of the plantation is stated to have here eight per cent.

Sarly in August, in a village of Epirus, a most artiul stratagem was played on the Turkish troops. Capt. Davelt, a famous brigand chiet, who is in command of 120 men, sent twenty of his comrades into a villare, and caused notice to be given to an Uzinshi of their wherealouts. Immediately 200 Alleniaus and Turks surrounded the villaniaus and lage, and a parley commenced between the Unicabl and the brigand in command of the other twenty. He offered the Untachi one bundend pounds to let him pass freely, but the Uzteeld stuck out for two hundred. While the necoto bo., 1924, 75c to soc, cate, 42c to tiations were being carried ou, Davell 44c, and ere, 93c. Stocks in storo here, and his hundred men and lanly descendod on the Tarks, and the result was that inst. were as follows -flour, 700 bbla, out of the 200, thirty were taken pri-fall wheat, 17.152 bushels: spring wheat, somers and seven escaped wounded; the 18,091 lashels; cats, 1,480 busbels; bar- rest were all killed, while the brigands marched off in triumph.

All accounts agree that the rosson at Saratoga is unprecedented in brilliancy. PROVISIONS—The supply of ments is the testivities on a grander sonte than me in the very low, and prices are very firm, with- ever before. Money has been ejent out change in quotations. Buyers of freely, but with rather less out ratations butter for expect are builties for expect are builties for expect are builties. The hotels have been full, as a rule, and

down the entire cost of the Grand Union little at something less than \$1,000,0000, probably \$800,000 would cover the whote investment het this is a prodictions sum of money to be planted ic a smail village with a normal population of not more than \$,000, linited States Hotel cost \$1,100 000, built with extravagent prices; but it was re-purchared at a torced sale for \$.150,100. Congress Lail cost over \$500,000, and at a bankrupt sale it was bought in for \$125,000. These flavers bought in for \$125 000 " are far below the popular estimates, but are probably about correct.

THE WOOL HOUSE.

Windns & co.,

18 Church Street, Toronto. Recognised as

Manufacturer's Headquarters.

All grades of foreign and domestic WOOL.

Beam Cotton Warps, every variety, at mill prices.

All second-hand woollen machinery in Canada on our books. Ad-dress of sellers given free, on appli-cation.



DROFOSAIS will be received by the undersigned until TUKSUA1 the 1st reptomber, 1831, from persons desirous of leasing the
privilege of ferrying across the Ottawa River
between the Town of l'embroke, in the Province of Ontario, and Allumatte Islanda, is the
Province of Quebec, ontablished under the Act
33 Vio., chep. "), by Order in Council of the
1st June, 1831.

Copies of the regulations may be presured
at the Department of Inland Revenue, and at
the office of Joseph Warren, Keq., Sub-Collector of Castoms at Pembroke.

Each proposal must be accompanied by an
accepted cheque on one of the chartered banks
ultimated by the proposal in Stream for a run equal to
one-half the amount of root offered, which
sum will be applied on account of rent payable
by the person whose proposal is accepted. It
will be retunded to those whose proposals are
refused, hat no refund will be made to anyone
who withdraws his proposal.

All proposals must be addressed to the undersigned, and endorsed on the carelove
"Tenders for the Pembroke Ferry."

A. BRUNKI.

Department of Iuland Revenue,
Uttawa, 18th August, 1861.

(39-2)

S. Lennard & Sons MANUFACTURERS OF

PLAIN & FANCY HOSIERY. To the Wholesale Trade Only.

DUNDAS, ONT.



JAMES WRIGHT & CO. CHURCH, BANK, HOUSE.

STORE AND OFFICE FITTINGS. Art furniture and intaid Score, etc SEND FOR FULL CATALOGUE. II TO I7 HERMINE ST., MONTREAL.



DIRECT TRADE BELWEEN

Canada & the Brazils.

Subsultzeel by the Canadian & Brazilian Governments.

Montreal & Halifax (Summer and Winter Ports.)

TO PERNAMBUCO, BAHIA and RIO JANEIRO.

Calling at ST. THOMAS, West Indies.

NEW STEAMSHIP SERVICE

. PASSENGER AND PREIGHT.

Exceptional advantages to Traders, Export and infort

For all information address

f. J. Mackay.

Gracered Traffic Apent. Canada and Brazillan S. S. Os., Ottown

RAILWAY MATTERS.

EMI ESON AND DELUTH RAIL-WAY.

ed with this country and its resum en saw that it would not be many sours tofore Monitoler and Northern Minnesota and Dakota would require a shorter and chesper outlet than was provided by the then existing railway seaten so they applied to the Higgs of the Legislature for a charter for a rallway from Dufuth to some point on the international bounds are line between the Lake of the Woods grant of ten sections per mile organized their company, and named their road the Duluth and Winnipeg Railwar. That was before Emerson was known, and before the system of fallways as now planned for Manitola existed New things have changed, and toolsy the Duluth and Winnipey Railway people ato more anxious to secure connection with Emerson than with Winnipeg. The commanding rosition of Emerson is becastern constallsts, and the shrewd men who are managing the Puluth and Winnipeg Italiway see that he building to Emerson and obtaining connection with the Emerson and North-Western Railway and its branches, they can command the trade of nearly all of Manitola and the North-West, and by throwing out lateral lines through Northern Dakota oan also take the trade of that section. Anyone can see this at once by a glance at the map. From Engerson to Duluth via the Duluth and Winnipeg, it is 275 miles, and from Duluth along the south shore of Lake Superior and across the Sault Ste. Matie river to Montreal if is almost an air line. From Emerson to Fort William, on Lake Superior, via the Canadian Pacific, It is 500 miles, and from Fort William to Montreal around the north shore of Lake Superior the distance is 400 miles greater than from Duluth to Montreal along the south shore. From Emerson to Duluth via the St. Paul, Minneapolis and Manitoba road and Northern Pacific, it is 400 mile. The Duluth and Winnipeg Company, in connection with the Emerson and North-Western, have got the best railway system that can possibly be provided for this country, and they know it. and propose to utiliro their Lonanza at onco Mr. Billholmer, goneral man-ager of the Duluth and Winnipeg, ararrived in Emerson on Tuesday, and had a long conference with the board of directors of the Emerson and North-Western. We are not at liberty to dis-close all that was mid and done, but we We sre not at liberty to disare at liberty to state, on the authority of Mr. Billholmer, that the Duluth and Winnipeg Railway will be completed to Emerson by November, 1882 Two sur-Emerson by November, 1882 veying parties are now in the field locating the line through the heavy timber cast of Duluth, and a third party will before long be put in the field at this end of the line. It is expected that the survey will be completed before snow flies, when the contracts will at once be ict, so as to give the contractors plenty of time to prepare to push work in the spring, when the read will be pushed just as fast as men and money can do it. →Emerson International.

ANTICIPATION OF THE RAILWAY RETURNS FOR 1880

The issue of the "Rallway Returns" is very lardy again this year—It is diffi-cult to assign any adequate reason for a delay in their publication which allows all the January meetings of the com-panies to be held before this means of comparison is put into the hands of the shareholders. But that the July and August meetings should be held before the general account of the railway movement of the previous year is published is inexcumble. And this complaint will be seen to be more just when we point of the fallway return of the past year have actually an inch deep with crushed grasshoppers, some time since been published by the which have killed themselves by flying Beard of Trade It is certain that the department has not only received, but tabulated, the details withheld from the public; for rome of them have already made their appearance in a Blue Book issued by the Statistical Department of the Board of Trade We are not aware at this moment of the exact day on which the "Statistical Abstract for the United Klogdom from 1866 to 1886" was first accessible; but we have been consulting it for a fertnight past. In that book will be found the following particulars of the railway movement of the year 1880 : The total length of rail. way in the United Kingdom open at the end of 1680 was 17,945 miles, being an increase of 249 miles within the year. The total capital paid up, including shares and loans, to the end of the year, was £728,621,657, being an addition of £11,618,188 during the year to the former aggregate. The total number of resembers conveyed, exclusive of season ticket holders, was 603,884,752, against 562,732,890 in 1879; the average number being 33,052 per mile in 1880, against 31,800 per mile in 1870, and 19,799 per mile in 1866. traffic receipts was £61,958,754,showing a considerable advance on the £59,393,782 of 1879, and in fact being at the rate of £2,453 per mile, instead of £3,256 in 1879, and £2,754 in 1866. The working expenses were £33,502,509—nearly a raillion and a half increase during the year. The net profits were £30,985,694, agrinat £29,731,430 in 1879.

were the whole system has reen from Local in hers to Creek in 1850 , the working expenses have risen from * Per cent of the gross income in 1850 to depercent in 1880. The propertion. A few years upon a minuter of enter- of net receipts to paid up capital to 1 ? publing est 20 ment Dubuth well acquoints per cent. It will be observed that with the factors of press triffe his been at the rate of a specient for the year, the frarease of working expenses I as been nt the rate of 4 per cent on the revenue —from 52 to 64. This movement, recommenced in 1880, after a movement In the opposite arrection since two, sptears, from the reports of the half yearly meetings just held, to be advancing with unabated sapidity in 1981. The returns and Red Liver, secured a swamp land do not also the particulars of his stager. goests and mineral traffic, which may possibly throw some light on the bage advance in the rates of working expendifere In 1806-the earlies care to which complete tables go back-the preportion of working expenditure was 47 fer cent of gross revenue, install of 64 her cent us in 1880 .- St Jame & Cla.-

Q M O & O. RAILWAY.

The traffic receipts of the Quebec, Mon-treal, Ottawa and Occidental Railway for the four weeks of July were -

			1-80.	1881
July A			\$15.001.24	\$ 30,122 ×7
July 15 July 21			12.251 (a)	31 150 CM
July 31	•	• • • • •	14 100 84	22.035 H

Total \$41,111 ft \$41,622 45 The nature of the traffic for the month was as follows :--

Passengers. Preight. Mails. Total \$45,579 16 \$50,043 32 \$2,930 \$41,622 84,710 19 19,778 17 2,117 50,111 -Montreal Star.

A number of the engines now in use on action 15 will probably be hand-ed over to the C. P. It. Company short-

It is said that an English company has offered David Moore, of Uttawe, \$300,000 for his timber limits, situated on the line of the C P R.

The offices of the Manitoba and South-Western Colonization Railway liave been located in Winnipeg adjoining Dr Schultze office

Crop averages of from 20 to 25 bushels to the acre have been reported along the line of the St. Paul, Minnespolis and Manitoba Rallway

W. R. Baker, Assistant General Superintendent of the C.P. It, expects to come to Ottawa shortly to bring his family up to Winnipeg.

The South-Western Railway Company's town site will be the first regular station on the line west of Winnipeg, and will be culted Magara

At the annual meeting of the stockholders of the St Paul, Minneapolis and Manitoba Railway, held on the 15th inst, the old board of directors were reelected and the officers of fast year were re-chosen

Mr Vaughan, D L S., is now laying out the C. P. R. Company a town alto at Smuggler's Point, where the southern extention of the road will connect with the Grand Forks extension of the St. P., M. & M lty

On Thursday the Northern Pacific started out a large force of men to commence laying iron on the Casselton branch of the C. P. R., and this extension will be ready for trains nearly to the international boundary by December 1st

The Chicago & North-Western has just [mid its semi-annual liceuse tax for Wisconsin business only into the treasury of that state It amounted to \$53. which is a very considerable contri-392 button by one corporation toward the expense of the state government.

According to an exchange, "locomocoming into Milwaukee covered against the engines. This is a good deal of a story l'erhaps the author would take off half an inch of grasshoppers if he were pressed.

Managing Director Pew says the steel rails for the first fifty miles of the Bouth-Western will probably arrive at Winnipeg by September 1st, and that track laying will be pushed from Winnipeg south-westerly as soon as they arrive, so as to have the fifty miles ready for traffic by November tal

The St. Paul, Minnespolis and Manitoba Company have completed their grade from the Grand Forke to the International boundary line. This extension completes the line running from Parge north The new road runs north-west and north from Grand Polks and parallel with the Rat River, keeping about twelve miles west of the river.

The traffic returns of the Great Western Railway of Canada for the week ending 19th August 1881, are as follows :-

Decrease.. \$14,103

A meeting of the provisional directors of the Winnipog and South-Western Railway was held in Winnipog yesteruring the day, when stock books were opened.
0.985,694. The company was incorporated last seaThus air slon by the Manitoba Legislature, with a

us to said that the mean cost per mile nom a point at or near Winniper, south Quincy in Iowa and the latter agreed in prometers of Free Trade in the Describes

> shiph compation the Marcal Trion, Anchor in Papel and Peace Telepople will be consolidated into the Pescil Tel graph Computer, and that an extenalso exalched lines will be capably completed and specific put in epitation While existing nations lines are telesprofitled all over the country, it would

> The Cintianorga Trace notes that a read engine owned by Mr. L. L. Me-Water started cut on the endd North tierigia diri road drawing a wangon containing water tool and a cettou gin and can tallf. It left at 10 am, and the engineer's expected to agrice at Tip moat his distinction, a distance of 25 miles stopping at Rossville and all intermediate stations. This territic speed to alle the performances of locametties on early influare

It is said that Ampsion is to get the workshops of the lastern Division of the Camula Pac fic Rathway, Mr. Havey having offered twenty acres of land free, and the works to be exempt from taxation for twenty years. As the constitue-tion of a dire tiline between Ampider and Boll's Corners is only a question of time, Amprior will some day be a junction between the East and West and North and South lines | Carleton Place is also moving in the matter, and will offer twenty acres of land

At a meeting of the railway mail amperintendents held at Washington, D C . August 10, the subject of heating postal cars so as to prevent accidents by fire was referred to a special committee, with Instructions to examine the various devices submitted, and confer with promineut railway officials as to the best method for adoption. The committee will report at an early day to the general aupennatement of the railway mail service, who will submit the recommendations to the department for approval

The vast number of changes that have already taken place among railway compaoles, resulting from bankruptcy and re-organization, and from purchase and lease, is indicated by the fact that the last is uo of Poor's Manual gives a list of 1,004 former names of milway companies whose titles have been changed or whose lines have been acquired by others. In far the greater number of these cases, as the formulable list of foreclusives which we have published annually indicates, these changes of names meen that the original stockholders have been wholly or in part wined out, the re-organizations for the most part having been made by the hondholders, who were compelled to put in good money to save bad, and who generally have had too much to do in taking care of themselves to look out for the original stockholders. The number of the existing milway companies in the country is indicated by the list in the manual of about 1,130 present titles as we make them out. Very many of the log thence to San Francisco. merged in others, and the companies have practically passed out of existing the number of separately managed railway lines and systems in the country can be obtained from the Official Guide, the last number of which we find gives the time tables of 782 different roads after deducting the duplications, some roads appearing a second time under a different line name - Railway Age

On Friday, 19th August, a large party, including Sir Alex Ualt, Hon Wm Macdougell, Col Dennis and Mr John Lowe accepted the invitation of (leneral Superintendent Stickney to take a run to the end of the Canadian Pacific track from Winnipeg west Most of the grading was noticed to be completed. The track is already fald from the Fortage to High Bluff, and trains are expected to wholo distance by the mid. die of O tober, when the present line west of Stonewall will be taken up and the line between Winnipeg and Stonewall operated as a br nch. The rapid progress which has been made on the work proved a surptice even to thuse who know it was being pushed vigorously, but had no idea of the extraordinary rush with which it is carried on. From l'ortago La l'rairle west to two miles beyend Pine Creek, forty-seven and a half niles in all, track has been laid and lined, the road bed perfected, cattle guards and crossings put in, in fact everything completed except believing Brandon only twenty-nine and a half salles remain, which has been graded and is now ready for the ties. Track laying is progressing at the rate of a mile and half per day, and by September 15th trains will run into Brandon, if the bridge over the Assiniboine is completed concurrently with the track laying, but anyway October 1st will be the latest The station at Equirrel Creek is nearly completed, others are to be erected this season at Rat Creek, Image Creek, on the Sand Hills, near Bab's about four miles west of Pine Crock, on the Beautiful Plaine and at Brandon At Image Creek a water tank was completed in advance of the road; at liab's one is nearly completed, at Brandon one is started, and another is to be erected on Beautiful Plains. Brackett, Gaylord & Co. have had the contract of all the grading west of Rat Creek, D. & D. W. Grant doing the tracklaying.

In 1880 the Gould interest agreed to make no new moves in Nebraska and to

the proposed extension of the Missouri four times ten years have reliable at Park up the west bank of the Missouri the inauguration of the kell in The fluiding ton termilly notified the policy in Figure that have a Missouri I've in and the Waltschitt Civilized community in the west successful. the egreement is now at an end in con- assumed an attitude of other it is sequence of the two violations mon- and has adopted a policy which tion t, and that it will act independentle stronge it there were not competition by so left in taken, to mean the exten-liant country with the control of the factor of leadway to Denver the Measure Paelth in turn announces a determination to parall-1 the Burification from Quincy to Chicago. The Atcheson, Topeka & Santa l'e also of jects to the proposed adopted that commer fall policy to Derives extension and has entered a written protest against its construction | their interests or next their trees, The matter is further complicated by disagreements among the Pacific roads A preliminary agreement has been signed, it is said, between the Te is & Pacific, Union Pacific, and Atchison, Topeka & Santa Fo roads, in combination against the Bouthern and Central Pacific roads. Our readers are aware that the Texas & Pacific has a suit pending against the Southern I'aelde which involves the right of way over which the latter road is built from Yuma to El Paso. If the former fails to get the latters road bid, or falls to effect compromise, it will use the Atchison, Topcka & Santa Fe track from El Paso to Albuquerque, and the track of the Atlantic & l'acific from Albuquerque to a point 800 miles from ban Francisco known as The Needles, and thence to San Francisco, built jointly with the Atlantic & Pacific. To meet such antion the Pacific roads could easily, and propose to, in fact, get east by the Denrer & alio Grando system, which is extending rapidly westward. The Bur-lington would have a hand in the scheme and could recompense itself for being cut off from the Santa Fe and Union l'acific roads, through the Rio Grande, which company is to join in extending the Barlington line to Denver The Burlington is, in addition, interested in another road building west from Denver, which will join with the Itio Grando extension to reach the Central Pacific at Ogden. Thus the Pacific roads could get cast by the Rio Grande and Burlingion roads, but they have also another plan to view. They have now an engineering party in the field surveying a ine from Corinno through the South Pass, down the Sweetwater and the North Fork of the Platte, thence down the Platte and thence to Yankton, DT, via the Mobrara River, where connection with the castern systems may be male. The Union Pacific has also its scheme with reference to those differences. It proposes to extend its Utali Southern Railway from Frisco, Utali, westerly to Silver Peak, thenco ncross the range to San Francisco, via the Youemito Valley It also proposes another plan for the Texas & Pacific, viz that the latter will connect with its ext malon at Silver Poak and Join with it in buildrouls thus named, however, have been complications and plans for extrication therefore have come to the surface durlug the past week, and give promise of so far as the operation of their roads is lively times to come. The simusion is concerned. But an approximate files of peculiar in the varied phases which it presents, and if actual hostilities are doclared the Eastern war will be completely dwarfed in exciting interest -Ruilway Agr. THE "FAIR TRADE" NOVEMENT

IN ENGLAND

The agitation in England against Free Trade may be said to be now formally inaugurated by the organization of the Fair Trade Longue," which starts under very respectable anspices. Substriptions to a fund for the uses of the organization --- none of them as high as \$10,000-are rapidly coming in, and preparations are belog made for vigorous work. Commenting on the formation of the Longue in Leigdon JA

"The total value of British produce exported was in 1842, the last year of the old unreformed fariff, a little over £50,000,000, it rose in 1859 to £130,-000,000, and in 1872, after twelve years of the French Treaty, it was over £250, 000,000. From that time it declined. Foreign nations, and even our own colonies, teyan to ..ght us with protective and in some cases prohibitive tariffs, and the experts of British produce fell in 1879 to £101,000,000, and the docrease has since continued. These are not consolatory facts. If there were a y signs that this condition of things was but temporary, English artisans would bear patiently the transient sufferings incident to all trade. As ar however, as impartial scrutiny can extend, there are no indications of foreign conversion to Free Trade. can it be said that Protection, so widely and so theroughly worshipped abroad, has brought on foreign countries that struin which the ancient Free Traders se confidently predicted as its inevitable result. The commerce of the United States has Increased 68 per cent during the last ten years, that of France in the same period has increased \$1 per cent, that of

England has grown only 21 per cent." The desired deductions from these facts are easily made, and cannot full to have great effect upon the matter-of-fact minds of the English commercial classes. The Industrial World (Toronto), in alluding to the new organisation says.

Germany 39 per cont, while that of

"The fact that circumstances have arisen to warrant the calling into exist-

tiom a point of or non-Winniper, south. Quincy in Iowa end the raises not come promouves or age. Find more casteris to a point of the interest of the out-more than the interest of the intere Walish building to Dos Molns and by Coblin put It, we find now a soft epipepasal extension of the Missouri for time ten years have a like the proposal extension of the Missouri fine ten years have a like the soft for the soft claimed to be last in its own lat res.

Upon this point at least the advocates of Free Frade we could be funit in their preductions, at I w other nations were reads an orgh to avthemselves of the advantage of the Trade on the part of buginat e solves which seemed to best sile. -New York Daily Interest of

THE EVOLUTION THEOLY I MECHANICS

On of the best illustrations of , principle of evolution, or the distheory, as applied to inventions is t. nished by the planeforte. In Mi lar lor's paper on The Arts of Pleasure traces many of the musical instrumof to-day lack to rude primitive for . The rattle and the drum were known among savages at a very early faring the nittle has come down to a childet. with us, except where it is in use by p Heemen, but the drum holds its one peace and was, although it has recent. come into discredit in the Frency arm-Above these monotonous instrument comes the trumpet, which brings he baric music a long step further on Ti pipe or flageolet appears in its radiment ary form in the common whiatle uniimproved by holes, by which the playalters the length of the pipe so at give several notes. From very serno times and far and wide over the carri the familiar pipe is found, played and or double, and sometimes blown with the nostril instead of the mouth A ready in the ancient world it had oft . been provided with a skin windlag which made it into the bappipe or bel sideways and blown a rees the ment. hole, it became the flute. In the moder orchestra the corner is a trimper privaed with stope. The clurionet is a dere opment of the grass stem, with a vib. ing slit or tongue, such as children . in the fields. The whole class of mucal instruments to which the harm dobelongs work with these vibration tongues, which by the name of rectstill keep up the memory of their mign The organ carries out to the wid . range and grandest proportions the pull ciple of the simple pipe or whistle Not less primitive are the rules than in which stringed instruments oping

These, however, unlike the class music making devices which come from the plaintive pipe of the gentle shepher or shepherdess of the sutique age whothoughts were only of peace and inowe their origin to a weapon of we Homer tells in the " Odrescy" how th aveoging, when he has strong b mighty bow, compact of wood and bor. gives the attended string a twang tin inakes it sing " like a swallow in a so. tone beautifully ' This Homeric towice the true progenitor of the grand square plane of our modern parlours inight well guess that the strung bowe the warrier would as virtually become lighly developed musical fastrament a In reen to have been the case with the rudo pipo of the rustic swain. The Egyptian harp was nothing more than bow, or curved piece of clastic week with several strings of different length strung across it, instead of only outstring. All the ancient harps, Assyrus Peralan, and even the old Irish were made on this plan. A defect of the plan was found in the fact that the brade of the wooden back put the strings of of tune. This detect was remedied the medicival English harp, with " front pitlar, which makes the win-frame rigid and firm. The courseimprovement in this direction was the by gradual and logical growth Ti harp as such distinctively is now losse. its old high place in music, having been largely crowded out by its numerous progeny, among which may be named the bassviol, the banjo, the guitar, an the violin. In the place, however, the fintp survives almost intact, and speak to us as it were, from the recesses what we may call its coffin. The verform of a grand plane shows that it is harp laid on one side in a case, its sinals being struck by tiny hammers work. from a keybord, instead of being placket directly with the fingers. It is the labor development from the bowstring of the prehistoric fighting man - Chicago Jo nal of Commerce

An unusually abundant barrest is . I ected in all the districts of Russis, 20 business is looking up in the maunity turing districts in consequence

The success of the Australian co. has been in menaure due to the fact the the expense of the voyage precises I's advent of pauper emigrants. When a moneyless man gors be has been select; by the Colean's agent in London, with regard to his physical espacities and character, and although, of ourse, black sleep slip in, yet, on the whole, the imprants are of a superior case, and slikely to small the nation of the manner. grants are of a superior class, and usinery to swell the ranks of the paspers. Here, the standard of comfort is comparately high among the working class, and this it is, coupled with the fact that manufacture do not as yet pay in the colony, that are negate for a consumption of British Ph-ducts which, in view of the size of it. Australian monalistics, assensial first of agrinst £29,731,430 in 1879. Thus he | slow in the Manitoba Legislature, with a | make no new moves in Nebraska and to | cace of the Fair Trade Leasure proves to | A usiralian population, seems at first at Blue Book. A little analysis allows | capital of \$250,000, and power to build | came annoying the Chicago, Burlington & | what extent the hopes entertained by the | inexploably large.

MINING NEWS.

COLUMN SILVER MINISO COMPANY

atendent Dats paid a flying to Passe Arthur Landing vesterto indust to l'in latand at an early the wording. He was as usual I ci tyancas, and we were unable tee in every tor a short interview. relative stable tory manner A

to maily of timber to already on The crection of these in the crection of these in neved for the accommodation of a Lie number of men employed - the work The dock has been reid it now a very substantial one to le tot evers requirement but will sain bed out about 5) fort fato the , so that the large steamers can land tacight there. The engine is to a the ton arrives there to-day the interior of the island en the discovery of several very vi, and it is proposed to open them ur l'he explorers are al l proseting their work, and it is expected that tate a number of other lodes will be reited in a short time. It is fair to proa state of great activity during the ned to some extent by the force of cirmatances, such, for instance, as to stether the number of men required in te obtained, etc. It is very gratify its to learn that large quantities of siver are being obtained in the shaft is were shown by Mr. Daby one very he specimen, but he assured us that it as met to be taken as an average sain-The bulk of the ore which he is weaving contains native silver in inge blocks, and it increases in richness, the work progresses. The comparato small amount of work already one has exceeded the expectations which the promoters had formed of this valuable property. The shaft has been ularged to the 50 feet lovel, and the starged to difficients the south about 50 feet on he lots from which is being taken, lowing very fine native silver. There are a number of feeders running into the veins from these directions. It is inrended to drift in the north side of the ode and cross cut on the east side; at the same time they will continue to tak to the bottom of the shaft which is now down to 60 feet. Mr. John Mcarilar, a man of great experience in minute matters, and one of the owners of Mckellar Island, who has charge of the men on Pie Island, thinks the voin wks very promising indeed. Verth wer Miner.

ONCERNING THE VALUE OF UNDEVELOPED PROPERTIES

By undeveloped properties we mean luse which appear on the records of the Mines Office as under prospecting rense, or lease by area, to John Omni-us and his partners. The purpose of the laws framed for the governance of and mining was, at any rate, to give the adventurous prospector an opportunity of finding what many of them would ive called a gold reef (an Australian introduced largely by the Nova ctian who came home from the gold .g.ons of the southern hemisphere), and wain to give the mining capitalist as " outlay for labour, machinery, etc.

What has been the roal result of this live for this class? Gossip, a poor relaon of that aristocratic lady Rumour irgil describes, publishes the fact of a ressful exploration, and at once Tom, than above its true value. and Harry, butcher, baker and alor rush to take up claims or licenses. be conditions of contract by which a referous territory in thus hold specifics corrain amount of work to be done, as seredly would be done if the parties the genulus prospectors or genuino miners. But do these energetic licensees or lesses proceed to fill their share of the contract by which they hold a title from the Mines Office? No; they are in · Mie baven, reached at a small expense, and they prefer to watch the course of reats before they-not work, but-just the property up for sale. The man the develops the value of the lode is " who has opened up the rock, sunk stalts, erected machinery, and done the note of opening a gold mine, the others are holding property by a false tenure, and the sooner this tenure is made strict and actual in all its conditions the -vouer will the woulth in mineral value clouging to the people of Nova Scotia trat. There is much wealth in this is alsona, but it is locked up in idle steedy liands by an imperfect adminisdation of an imperfect law.

It is full time that our system of min-'A and of mining laws should be ventiaid woudmit frankly that the capiwill find his venture a safe one; but is w many properties are open to his intestment, out of the great number that we en the records of the Mines Office? A large proportion are held at a price "at preclodes their occupation by a mining capitalist, the money which should properly go to development is lamed by the laneholder, whose intestment is as diminutive as his demande

Here we come to the question of rates in undeveloped properties. There is negeould to maintained for its rears and for use in the interded doubt but that a virgor claim or e t of areas will, if oftered in the mining merhet af a reasonable inte, attrest working capital very capits, the gold that i'en and the grees roots will be attractive to such enterprise, and the absence of any exhausting demand for east on purchase will allow of an outles on effective and problable work the own r of the least will find him alf, very probably, a participator in profits of which his shure will amount to more than what he would really get out of a transaction manipulated by a bioker, whose commission so often absorbs all the cash payment made on a purchase

It is noticeable that very often the first thing done on the purchase of a develoned mine is to make a complete change in the machinery and in the working of the property, watch would seem like a condemnation of the work done by the developer. If this happens so frequently, is it not likely that the undeveloped property placed in the hands of au his management would start in production with the advantage of a perfectly free field †

What we want, then, is a reasonable value placed on undeveloped properties and the application of the capital and mining skill to their development, not for a market, but for a continuous pro- sixty days, it is evidently not exaggerduction by the new owners. - Mining Herve

STATISTICS OF THE ANTHRACITE INDUSTRY

101.302

\$23 17

\$15,952 7,718 8514,955

\$243.2%

Number of acres of coal lands re Mineral value of same, whether owned or leased \$102,614,844 A erage value per acre. Number of tons on which royalty reported Amount paid on above for 10) 14,000,001 Annual paid on accept to roy ally.
Average amount paid per ton for royalty Number of horses
Value of horses
Number of same engines
Number of stame engines
Number of engines
Horse power of engines
Number of boilers
Value of boilers
Horse power of boilers
Horse power of boilers
Number of mine looomotives
Value \$3,276,306 alty Number of mine locometic Value Number of pit cars \$1,613,607 Miles of railroad track under ground
Miles of railroad track outside
Total value of machinery, includ-ing engines and boilers
Value of plant
Value of working caph \$13,233,413

Total capital, real and per- \$150,101,100 Ratio of real estate to total

tal ... 7,731,953 Value of real estate . 102,614,844

Ratio of real celate to telal capital capital 68.34 per cent. Ratio of plant to total capital 20.31 per cent. Ratio of working capital to total capital capital 70.346 per cent. Ratio of value of annual product to total capital 20.346 per cent.

The very large increase in capital reported (\$150,161,196) over that returned in 1870, (\$50,807,285,) would seem to call for some explanation and justification, the more so that the capital in 1870 was reckoned in paper dollars. The increase is over 195 per cent.

The "plant" covers machinery, tracks, cars, buildings, animals, shafts, and dead work, and is the sum of the several items, and has been kept rather under

The largest part of the increase of capital is due to the fact that included in our returns the coal lands not owned by the mining companies but worked on a royalty Mineral lands are clearly a part of the capital of the raining industry, whether owned or leased or mortgaged. It has been our aim, however, to include only those coal lands which are in immediate connection with a working colliery, and either pro-ducing, or, in view of the increasing demand for this fuel, about to produce The average number of acres reported (604) is not too large in this view; for the area reported vould make a block only 16 12 miles squere, which the 1,085 miles of undergound track would pierce. with 67 parallel gangways from side to side, less than one-quarter of a mile apart.

53,335 acres of non producing coal lands, valued at \$25,702,500, held in reserve by the great companies, were thrown out altogether as not an element of productive wealth at present. Of the 164,852 acres retained, 13,852 were returned as worked over. As all but a very small portion of this still contains the lower seams, it has all boon considered as producing coal lands. The total amount so retained constitutes about alist who favests in any of our mines 86 68 per cent of the entire area of anthracite lands, estimated at 200,791

The average value per acre. \$622.47. in much less than the ordinary market value of such lands, so far as such property-valuable only in blocks-can be said to have a market value. The price has usually been fixed by the owners

produ ing state of this courted the processing the author to real estate would the energy ingentions the other a holding dislone of our him enter the processing the author to real estate would the enter a pumping the other a holyting to save, and to leave at the close of with important resources to the entering of the entering the sale of the entering the en

working is made an atsolute confinion conservative view that only 27 percent of tenure at piezent we merely love of the total content would be mined and the capital that is fortunate a ough to marketed the projection of anthracito tind a taxograph's size out of the many after 1883 would got his consequence of the should be available to the before exhibition. This would in- Hell Journal die ite that the output of the cencus year

As the titule which we have assumed ea ne esserv part of the Industrial capital to be reported constitute bres per cent of the entire area they would continue to earn their present tocome for as Tears.

If we assume that constently of the income would be absorbed in taxes and expenses the present value of the almost \$112,120 mm, and with interest at 54 per cent , 5102 790,000

The above valuations would be materially increased if we took into account the probable anticipations of the payfacults of the income of the later years of tuo term, owing to the increasing demand and the probable reduction of three, as the citate approached extensetion.

Finally, the term "working capital, means the sum of money necessarily advanced for wages and supplies during the interval between production and the receipt of returns from sales. It is represented in actual property by the un-old product on hand and in transit. The stimate of this amount was made in nearly all of the collicies by the operamore than the value of the product for ated.

Un the whole, the actual value of the anthracito property, as an element of productive wealth, is underestimated. notwithstanding the great apparent rice since 1870 - N 1 Indicator

NEW THEORY OF THE FORMA-TION OF COAL

The Engineer and Mining Journal has the following communication from Mr. Theo. Cooper, C E., of Scranton, Pan which releas new questions not of the origin but of the formation of coal :-

I have looked in your paper for several weeks pest to see some notice of the remarkable material discovered in excavating for the new court house in this place. Having seen nothing, I thought it my duty to science to report upon the same. First allow me to describe brickly the location. This building site is in the heart of the town, upon a square which formerly was a swamp, but some years ago was filled with cinder from the

On excavating for the court bouse foundations, the cinder was first re-This was five to six teet deep. After this, came a bed of excellent peat, varying in depth from 8 to 12 feet. Below the peat, a stratum of muck eparated the peat from the hard pan below. In the muck were veius of tough black jelly, resembling in all manners, except its gelatinous character, anthracite coal-lustre, colour, fracture. When dried alowly, it solidites into a hard, brittle substance, which would be censidered by an ordinary observer as real anthracits coal. After hardening it does not again soften in water, hot or cold. It burns at a read heat, and leaves an ash resembling the red ash of some coals. It fiames on first ignition. The jelly is acted upon by alkaline solutious

Home analyses have given only 20 per cent. of carbon in the dried state, but I think the pourer specimens contain a larger amount than this.

Now I am strongly inclined to believe that this is a true key to the formation of coals, and have assumed the following hypothesis as worthy of experimental

examination. First, the formation of a siliceous jelly from the action of water upon the silicia in the vegetation. Second, is it possible for silicious Jelly to extract and absorb carbon from the carbonaceous fluids extracted from the overlying vegctable matter?

Anyhow, here is a carbonised jelly: how was it formed? and does it resemble coal sufficiently to warrant A belief that coal was formed in this man-

I inclose some small samples of the dried substance, and if you can get any chemist to investigate the be pleased to forward sample atinous matter.

A number of the directors of the S. H. M Co. paid a rather lengthy visit to Spring Hill last week. They were secompanied by Chief Justice Sir William Bitchie The company are about to sell or lease a number of lots of land, and it is understand their visit was in this connection With their usual good fortune, the Spring Hill Mining Company have been fortunate in uncarthing a splendid seam of coal. Sinking about 100 yards or thereby to the north of the west slope the sinkers went through a soam of coal in the neighbourhood, being brighter

Their faper could be the said but burned and extending it to the cause government the Altert Mining Company, builted debt in the course or the change conservative view that only 27 per cent hundred feet further. If the expected of the total couts at would be mined and operations are curried out the company will be at he to point to the most extenelso cost worked in the province - Sprans

ENGLANDS NATIONAL DIST.

Parliament of Mr. Glosstones scheme for the reduction of the national debt. there has been found a treasury minute ectting forth the details of the plan and the measures to me taken to carry it out The acheme, as we have betere explained. in one for Ha venes would be, with inter- it a very simple one. In 1885 annulties cet at a per cent, in cound numbers to the amount of £7,107.572 will expire, and note our financial aveaugements left on their present tooting the tien chancellor of the Ex hequer would have this large sum at his disposal either for the remission of taxation or the reduction of debt. Mr (itadatone, however, is of opinion that this option as to the disposal of the meney should be some-what curtilled. His desire is that some portion of the free revenue that is to accrue four years hence should be devoted now to the extinction of debt, and secured for that purpose beyond the possibility of allenation. And to this end he proposes the creation, by a twofold process of a new series of terminable annuities In the first place he asks Parliament

to empower him to convert immediately £2,900,000 of the £7,107,572 of annuities terminating in 1885 into annuities sunning until 1906. By thus extending from 4 to 25 years the term of the annuity, the annual payment will be reduced from £2,000,000 to atout £460,-000, the calculation being that an annuity of £460,000 for 25 years is of the same capital value of one of £2 -000,000 for 4 years. The effect of this operation will thus be to set free at once £1,540,600 of revenue, and Mr Gladstone's second proposal is to apply this sum to the cancelling of £60,000,000 of funded debt. Ho will say to the holders of debt to this amount :- I fand me over your stock to be cancelled, and in its place I will give you an auntity of sufficient amount to pay off the principal and interest in 5 years." The amount of such an annuity, assuming consols to be at par, is \$3,428,600, and towards the payment of that Mr Gladatone has the £1,540,000 which will be eared by the conversion of the £2,000,000 short annuality Moreover, by the cancelling of the £60,000,000 of stock the annual interest on the funded debt will be reduced by £1,800 000, and this aided to the £1,154,000 makes a total of £3,340,-000, which will be available for the payment of the proposed annuity of £3,426,-000. Thus only £88.000 remains to be provided, and that Mr Gladstone proposes to take out of the new sinking

If Mr. Gladstone had to find amongst the general public people willing to accept his new annuities in licu of their stock, there would be little prospect of his being able to carry out his scheme There are comparatively few fundholders would care to make this change in the character of their tovestment. But the Government is not dependent on the It is itself the holder of a large amount of stock on account of the savings banks, and £20,000,000 of this Mr Gladatone now proposes to convert into annuities. The remaining £40,-000,000 he asks to be allowed to take from the £02,000,000 or so of stock now standing to the name of the Chancery Paymenter To this latter proposal the Lord Chanceltor has consented on condition that there shall be a margin of insans asylum at Vienna, amounces the unconverted securities left sufficient to result of experiments made by him in provide the maximum amount of payments and transfers out of court which, according to experience, can possibly be required, and as the highest amount transferred in any one year hitherto has been £6,595,000, the balance which Mr. Gladstone proposes to leave in to all appearance, simple. But to make assurance doubly sure, it is further proposed that the Treasury shall be empowered, should the need arise, to reconvert the annuitles back into stock, and by this means the interests of all interested in the Chancery funds are thoroughly safe-There are some minut regulations in connection with these converalong to which it is not necessary now to refer. The glat of the plan is, that the National Dobt Commissioners and the Chancery l'aymaster will have the book entry of £60,000,000 of stock now at their credit cancelled, and in place of it will receive an annual payment or £3, 428,000. Or this amount £1,800,000 represents the annual luterest on the LC0,000,000, to which those on whose account the Government securities are held will be entitled, while the remaining £1,625,000, invosted at 3 per cent. will in 25 years amount to £60,000,000, and thus replace the stock now cancelled Upon this scheme the actual reduction

of debt will, of course, be no greater nor no more rapid than it would be if £2,twelve feet six laches thick. The find 000,000 of the amount left free by the ir said to bu the best coal 3ct discovered expiring of annuities in 1885 were applied your by year until 1906 to the puris and to nave a market value. And price in the regimentation, come originary part year by year until 1900 to the pure by exposing them is has usually been fixed by the owners. It is said to be altogether free of slate or continuous annual redemption, just the beat upon care 23 17 cents per ton, which is reported as atone. The Spring Hill Mining Comsame as the operation of the annuities, pany have purchased two powerful en
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent, of the product re
[mid on 51] per cent,

with importal rights of the model of the model of the entire indicated in the expectant the west slope, and that is the fine the terms of the first the indicated in the common and stelling will be expected in the entire indicated and its the field in the entire indicated in the entire indicated will be expected in the entire indicated in th yearly surpluses for the repayment of aelit. If there is at any thun an excess of revenue over expenditure, it is immedistely made the basis of demands for the remission of this or that tax, which the Chancellor of the Exchequer rately units himself able to withstand. The consequence is that latherto we have floring two in the war of wiping off In anti ipation of the discussion in ; debt than we ought to and might have done And, although there is no longer the same reusen for preferring reinissions of taxattor to sepayment of debt that there was be are the reform of our fiscal aratem, as appear as little disposed as ever to make any perceptible effort to redu o the amount of our national indebtedness. When we have a surplus we spend it, and it is the recognition of this weakness that is at the root of such schemes as that which Mr Ululatone now puts forward. What he wishes to do is, so to speak, to hide from us the fact that we have a surplus Under life schome the £2,000,000 to be applied to the debt redemption will appear in the budget, not as so much free revenue, but as a dobt due to cortain annuitance, the payment of which is not optional, but absolutely necessary. The money, therefore, will always be provided, and we shall thus be steadily doing something during the next twenty-five years to reduce our indebtedness, whereas 't it were lett to Parliament each year to vote \$2 000,000 for redemption purposes, tuo chauces are very much against this amount being regularly forthcoming - London Economist.

> A correspondent writing fom Dublin to an English paper declares that a manufacturing and industrial agitation will follow close upon the settlement of the irish quettion.

> Among the Oblistmas books of the pre-sent year will be a biribday book of the Princess Beatrice. The book will consist of illustrations in water colors, said to be training in where chors, and designed to represent by torir appropriate finers the iwrice months of the year. These pictures are to be reproduced by the chromo-line graphic process. The illustrations for August and December will be presented in the state of the process. printed in no less than sevenies a colours, and that for Airli is enginers. The volume a faten ed to be one of the most magnificant girt broke of the year.

The other day I was crossing ht. James's Park from the Duke of York's Column A rather decent-lusking girl was doing the same, and as we walked along side by side, we tell into conversation in order to encourage her to talk, I said that I was a printer, and had been keptup into at my a printer, and and over a specific terms work—it was about 2 a m: bot told me that she had been walking about Mile Eod Road a I day, and the Park all night, but that she had earned nothing. She was engaged, she said, to a soldier who was in India, and she lived in some slota as Westmunder, where also had sletter. was in india, and she lived in some slow, as Westminster, where she paid eight shillings in week for her room. Her weekly earnings averaged fourteen shillings, I mildly suggested that she might make as much money by sewing or by taking service; but she said that she could not saw, and that she would find it monable to see a simulting no secret. immeable to get a situation as a servant maid. When we had got to birdoage Wark, I gave her hait a crows, which I thought about what a prater could affect. She thanked me, and said that she would not take it if I was myself in want of it. Then she asked me to shake hands, which that it a friend were to pass, be would that it a friend were to pass, be would think now associations remarkable. And so we parted. Now this is the sort of girl who is agreeted by the police. But if she, why not, I ask, the women, in panoply of silk and brass in Waterloo Place?—Truth. Professor Schlager, director of a noted

relation to the blue glass heating theory, which at one time aftracted so much attention in America as well as abroad. He had a room furnished with windows of blue glass, and had the walls painted of the same colour. He then selected sixty persons who were more or less deranged mentally, and made them the subjects of experiments. tion for a period of three years, placing them at aclected times in the bine and carefully noting the apparent effects upon them. He discovered that the abnormally aroused and excited temperament experienced a remarkably southing and quieting influence in the blue light, and he expressed the conviction that with persons thus montally deranged, with whom every other method of treetment has failed, this should be tried. He does not report any complete cures made by this means alone, but says that in most cases the treatment has proved beneficial, and that if continued systematically and persistently, the indications are that it will lend to complete restoration. In no case did it work injury. He expreses the intention to continue his experiments, and calls upon all associates and colleagues in the treatment of the inmos to do the same, and make careful notes of their observations. Professor Schlager has also made valuable and interesting experiments in treating deranged persons of abnormally depressed or aluggish and apathello temperaments by exposing them in a similar manner chase of stock. The result of such a to red light. His conclusions seem to continuous annual redemption, just the be based upon careful and scrupulous name as the operation of the annuities, study and observation, and are attracting

120			
MONTREAL PRICES	CURRE	NT.	
GROCERIES	70 A		High Itse
Consour, fine to fine to soul . Outsto soul . Outsto soul . Guingous Gui			
econ la thirds Imagrisla medium to good.	13 H	()- ()- ()- ()-	Gulo
She to extra Japana, choicest choice	6) H		Point Peril Aval
Just to good common tius powder, firsts to extra seconda thirds Imperials, medium to good. She to extra Japans, choices Sucst good medium tachium common dust things, cheichest fine Fourhouses, fine to floret fair to good wankay touse ily son, firsts to extra seconds thirds	\$255 8 8 6	.i.	Boel
dust Notings, chilebest Bae	() () (1) (i) (i) (i) (i) (i)	14 75 70 80	Theo
Fourhouge, fine to floret fair to good rousteou	(A)	10 45 73	De Si
Twackey	10 M	115 42 35	De Si
cofff.		٠.	
Unicory Java, old Hovernment Ordinary	11 0	13	M. M. M. Pemi Port Gock Geo. Port Peles
Jamaica Jeguspa Plantation Ceston	21 60 14 60 21 60 21 61		Geo. Port Peles
Mocha	21 60 21 60 21 60 21 60	23	Rous
Barbadoes .	;) ø	A:	Acke Cla Rarti Nath qua Nath plo
Cobs Cut Losf Granniated Do. Dismond A Grocers' A Montroel yellow Puts kino	11 0	6.50 6.50 6.50 6.50	Nath:
Montreal Sellow . Porceldico	4 4 4 5	Ř	Alsei
Amber	83 8 83 8 80	65 65	
imperial . Lord Lorne (neurine) l'ale Amber . Hoyal Imperial	60 80 80 80 80 80 80 80 80 80 80 80 80 80	66 65 63 67 60 63	Sicht Sicht Sieac Jiluo Boras Camp
Star Ambet Standard MOLAFRER, Barhedoes (Imp. gallou).	N a		Cause
Cardenas	(1) 😝	288	Citrio Coppe Crean
Filtered, pus Vivecovario Porte Rico	28588888888888888888888888888888888888	\$3888888 \$438888888	Epsot Oum India
Cardenas Centrifugal Pitered, bris Filtered, pus Viuscorano Porte Rico Sugar House, bris Sogar House, pan Trinidad Patir.	% 	4:1 82	Drain
Almonds, hard shell	13 J	9 15 60	Opius Oxali Ppe C Quini Kal Sc
Folian shelled Aweet Frasil nuts Currants, new Dates, solden	5) 69 6) 69	(8) 78 80 10	Kal Ko Galipi Koda
Dates, golden	6) 48 6) 48	10	Caiba
Malaga metsboves	(6) @ (7) @ 10	8=885	Tetta Whiti
Raisins, black from	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 76 2 90	Winds dina To
Jorian shelled aweet Brasil nuis Currants, new Dates, policen black anest Fire, Rieme layers Malaga mate boxes Pilberts French Prantes, boxes kegs Rairins, black erown London layers Loons Muscatels Layers seedless mats old black basket blue Sanlines, wasters Valencias Walants Walants Walants Brices.	2 36 6	SESTERS SESTERS	. "
black backet	0 8	10 0	Rod L
Sarlinee, quarters	15 8	11 31 11	Ball
Walnuts Walnuts, Grenoble, sensine Rejects.	ori #	88.	Dutto Cod. (
African Glazer	12 6	13 17 16	Iard. Unge
Carsia	11 66 16 66	45 25 25 25 25	Oliva
Mustari Seed, yellow	15 @	99 19 21 25	Parast Patrol
Pepper	65 0 14 0 15 0	12 m	Seal, l Seal, t Steam
Rica	3 11 00	3 95 05) 8	Coal T Oakun Jine J
Ealf.	87: 0		Pros T
Coarse (10 to the ton) Eureka, bass haltet quarters Factory Filled	32.00 30.00	99 99 1 %	No. 1 d Spirit
] # .		Manii Sisal Tarres Jute
Canned Fish— Lobater, lib cans Slackersi, Salunca, Bry Cad (Gaspe) Green Cod in barrels No. 1	1 85 00	8380 8380	Cotton Ball,
Large do., draft, No. 1	ĕ 500 ù	3 25 0 (0 0 (0)	Belma
Herring, Labrador	0 00 49	888	Paras
Malmon Troot half barrels	000 @	0 00	Amer Canad Carnb
Columbia River Salason, bris	88.88	8388	Coltui Ralia Garta Gleng
Scaled Herring	300	8\$8	Hema Semu
LIQUORS.	'4 જે. ≈ . ૯૦૦ ■	3.0	Canad Lower 210
Martell, per gal oases Otard Dupuy & Co	10 🕶 🙍	2888 4558	Scote 109 Best S Swedi
" Pinet's, P gal.	3 20 0	2 21 4 00)	Arrow
" Dulary & Co., P gal. " Jules Robin's, P gal. " Siviere Garden &	320 %	349	Ilatto Swan
Renault's, & gal	370 0	3 45 3 40 3 40	Chare
" Arbouin, Marett & Co., F. mi	330	3 35	16 x 2
Selection, to orbit 144	2 iš 👱	3 15 3 00 2 45	Chare
Cuba Gin, De Kuyper's, red cass. green	7 76	7 05 55 55 55 55 55 55 55 55 55 55 55 55	More Uther Hoop
" In wood " Blandenbeym & Nolet other brands green, ether brands, per	205 0		Cast, Siele
red, other brands, per	176 m	3 87	Cast. Siele Sprin Tree

山地流

	INDUST	RIAL	
and to bound	es (402) 1 240 4	1 91	
Res Whiskey Imper at in bond in small into pai Bass' Ale, quarte pints Guiness' Stoat, quarte	lott,	7 1 40 2 7 40 2 1 60	
Champagnes- Poinmer; Portler, Jouet & Co Axala & Co Moet & Chandon's 1	91 70 g 22 50 g 22 50 g 23 60 g	2 1 (10) 2 24 (10) 2 25 50 2 70 (10)	
Boelinger Theo Roslerer, Curte lile Gladate Jules Mun ra's Dey Ver	14 (t) 4	2300 2300 2300 2300 2300 2300	
De St. Marceaux & Cie, Illanche De St. Marceaux & Cie, I'Ur Max Sautoino L. Delwonico	Carte Carte Carte Carte	27 50	
L. Jaunay, quarts Rherries— M. Miss Pemartin's Ports— Corkborn, Smithes & Co	2 N 6 1 O 6 1 O 6	5 500	
(Ico. I) Sandeman, Sons Port Wine, Gircham's. Peles Joind Wines Sparkling Saumur— Rousteaux's, quarts pints Ackerman & Lawrence Clarets—	. 10 00 4 . 11 25 4 . 11 25 6	13 25 14 50 14 50	
plate DRUGS AND C	Sons. 4 "5 a Sons. 8 75 a CHEMICALS.	7 25 27 25 22 60	
Alum, per 1001bs Alum, per 1001bs Arrewroot, per lb. litearb Koda, pe. 1001bs litehromate of jotash bleaching Powder, per 10 litus Vitriol lorax, refined	14 d 180 d 11 d 210 d 131 d 101bs 120 d	1 40 15 3 20	
English Rosne Castor Oil Caustlo Sofa, per 100 lbs Citrio Acid	220 d	11 2 40 2 55 1 00	
Cream Tariar, Crystals Ground. Epsom Salts, per 100 lbs. Uum Arabic Trajacanth Indiso, Madras Joulde Johans Logwood, Extract		1 60 75 1 60 3 50	
Madder	10 an \$ 25 an • . 12} an • . 10 an • . 3 &n an	121 8 76 131 73 75 76 10	1
Sugar of Jaed Sulphur, per 1001ba Kulphur, Roll, per 1001ba Tartarie Acid Whiting, per 1001ba	85 4	2 871 2 75 00	
Window Glass, per 80 ft dinary (th quality) To 2: added inches	1.07- 1.00 A 1.70 A 2.05 A	1 70 1 80 2 15	
lsts to Srds, per gross Lkabs a P Rod Lead and Litherge	000 🙇	s or	1
Rall	011 @		
Oll.S. Cod, flaspe, & Imperial; Newfoundland, uo Lard, Extra No. 1 Unred, boiled, # gal raw	ral 0.54 🗗		1 1 1
Olive Pain. ♥ 1b ParafisoCansilian ♥ m American Patrolesm, refined, carlo	. 0 US 66 a1 . 0 21 d3 . 0 40 d3 ads 0 22} d3 lious 0 24 d6	0 45	
Seal, Pale, ordinary ceal, Straw Stoam refined Seal TAYAL AN Coal Tar OakumNavy Fine Filth	. 0 45 60	0 47 0 57 3 00 0 05	1 1 1 1
OakumNavy Inne Jitch Inoe Tsr	273 69 300 69 400 69 gall 075 69	5 6 77 5 6 77	710
Sleal Tarred rope Jute Cotton Sail, canvass duck cotton	0 11 69 0 0 0 0 60 0 0 0 60 0 25 60 0 20 60	0 00 0 00 0 00 0 35 0 35	(* * 1 f 6
CAYDLE Relmont Sperm Moutd. Mentreal Parasne, 12s & 6s. IRON AND NA PIG IRO	0 19 @ 0 10 @ 0 19 @	0 20) 0 10) 0 21	
American PIG IRO Canadian Siemens Carabrue Coltuess Egituton Gartaberre Glengarnock, per ton Hematite Sammerice	20 60 66 20 60 66 21 00 66 20 00 66 20 00 66 25 00 66	19 88 88 88 88 88 88 88 88 88 88 88 88 88	1 1 1 1 1 1
A 1. Ct	200 m nder 600 m .per 185 m	7 09 1 96 2 60	111111111111111111111111111111111111111
CLEADA PI Arrow and equal (Tilian Ilatton Swanssa and Penn., per TIX PL	340 m 323 m 310 m box. 000 m	3 M	1
Charcosi, I.C., per box Charcosi, I.V Charcosi, I.V	621 d 775 d 625 d 475 d	575 # 00 5 60 5 60	1111
Charcoal (best) No. 26	10 50 e	11.00	
Morewood's Live, No. 26 Other brands, No. 29 Hoope and Hands, per 10 Sheets, best brands arant Cast, per 1b		2 An 2 78	
Cast, per 1b. Steigh Shee. Spring, per 100 lbc. Jest d, warragted	3 35 d	7.5 00	

					!
	Josephan Francisco de la		s	1.25	l
	lawmorrand Bowling, under	7 (4)	ıs	K (A)	ļ
	Didinary France, best, 19	211	J	3 (0)	l
•	, viscoutentour Anchore	, _614	H	. a	
•	Anvile, "Peter Wright # " Aveg Cherping, 2016 2 p. c.	dier u	nt -	21 101	l
;	13-1 S. 6 13-1 D. 8	Tion .		0.00	l
)	Anchore Ansile." Piter Wright e" Axes, Cherplan, Dito Diperior District Programs, Dito Diperior District Programs, District Pro	10 40	J	0.00	i
)	*1 ard %1(2) and 2(4r) totand 7d (2 and 2 dr.) 6d and M(1), 1(and 1) in	310	7	0 113	į
1		3 10	vi	n w	١
) 1)	Cut Naile, per 10) lbs: 31 (1/16) A.P. 61 19 (d. C.P., cold cut	4.10	ð	00 (0) fig (1)	ı
	Galvaniged Wire, No. Otos	6 (*) 3 (a)	65 18	U (V	ŀ
•		2 (1)	is	2 50	1
•	Ricro Nails, to to 45 p. c. die Voffnfieled 20 21	8 X.		ում ար	!
)	Pointed and Finished 21c 23 Horse Shore, nor 100 the	3 7 7		4 m	ļ
	Horse Shote, her too like ingut Capp p ingut Tin Iron Wire, brt. or an'd	17 50	rt et		ł
)	Iron Wire, brt. or an'il.		٥	1 40	1
	No. O to d, per bit dilbs Pressed Nalls, per 1001bs Proced Coll Chain, I in	in i	S	5 % 5 %	ł
)	Sheet Zinc Fp.kes, pressed, per 100 H.s Vices, "Peter Wright's"	3.50 3.50 31.50	17	4 (1)	١
	LEAD.		W	11 60	ł
:	Rar, per 100 ths	6.00	n	5 90	ł
'	Shot, Canadian, per 100 lbs	P (M)	(d)	# 25 # 25	١
	BON	0 14	ø	0 16	ł
,]	Buffelo Sole, No. 1 Calfskins	0 14 0 19 C 65	9	0 23	ļ
	Grained Upper	U 35 0 27	ő	0 1	ł
	liemlock Slaughter liemlock Spanish cole, No. 1	U 25 0 25	H	00000000000000000000000000000000000000	ł
		0 13	9	0 24	1
	ltough Leather Shootskin Linings Splits, large	0 23 0 40 0 24	8 4 8	000 000 000 000 000 000 000	۱
	Waxed Upper, light and	0 19	ø	0 2	l
	" " Deety .	0 37 0 31	Ø	0 %i	l
	Boys' Spilt Brogans	E\$. 0 85	•	1 00	l
	Buff and Pebbled Con- Men's Kip Boots	1 35	ø	1 00	l
1	French Calf	2 50 3 00 1 70	988	3 76 2 40	۱
	Split Brogans Misses Buff and Pebblor, Bal-	1 00	ø	īiõ	l
ı	morals " l'rupella Balmorals	0.60	ø	1 20	l
3	Women's Buff and Pebbled Balmorals. " Prunella Boots	1 00 0 85	0	1 40 1 10	1
	RAW FURS.				١
١	Rear, cub	610	8	889 1088 1088	١
۱,	liear, small lleaver, spring, do lleaver, Winter, clean pelt,	4 00 3 00	Đ	ຶພ	1
ł	Constitution	2 (0	O #	2 78 2 83 6 00	۱
ł	Fisher Lynx Martin	180	ä	2 (10	I
ļ	Mink, Derk Prime	1 60 0 73 7 00	20.7	1 25 10 50 10 50	١
1	Leann	4) 15	#	A (4.)	İ
ł	Rate, Spring Red Fox Silver Fox Skunk, black	1 (0 25 (0	<u></u>	30 00	I
ļ	ORROR, DISCH	0 60	_	0 90	١
١	WEEKLY REVI	EW.			ŀ
	Mortana, Augus				
	Tito wholesale trade of t				l

not been as active as it will be in a few weeks beace. A large distribution of goods, however, has already taken place in dry goods, fron and hardware, boots and shore, glass and earthenware, etc., and by the middle or end of September a general movement may be leoked for. Remittances are fair for the season, the amounts falling due about this time be-ing comparatively small. Canadian farners are singularly fortunate this year in being blessed with abundant crops of cereals, for which they are receiving ligh prices, and the prospects for the continuance of same are good.

Day Goods-During the past week a number of buyers from the West have aken advantage of the arrangements ffected with the Grand Trunk Rallway Company whereby bona fide buyers are \$3.80. There is little or no Pictou accorded the privilege of travelling from offering. Hard coal is steady, stove Kineton to Montreal and return for one are. The tickets are available on the down trip by the boats of the Richellen and Untario navigation Company from Toronto or from any place between there and Kingston on payment the market at \$1 43/B1 44: No. of enc-third extra fare from such place to Montreal, returning by railway. Ticketa may be purchased up to 30th Bertember, which hold good for 15 days from the commencement of journey. From the number that have already availed themselves of these arrangements, and from the many fresh applications for tickets through firms in this city, we should judge that a larger number of Western buyers intend visiting Montreal this fall than for several years past. Those who have put in their appearance during the week have made very liberal purchi several large buyers ordering from \$4,000 to \$7,000 worth of goods. One ca our leading holesale dry goods firms spring extra, \$6.0542G.15; superfine, has compared its sales of the present \$5.70@5.80; strong bakers', \$6.25@7.00; month with those of the corresponding fine, \$4.90@5.15; middlings, \$4.65@ month with those of the corresponding man, 34.2002.00: minuting, 32.0002 menth last year, and the result is an in4.85; pollards, \$4.3004.45; Ontario lags, crease of 17 per cent. In favour of this \$2.9002.00; city hags (delivered) \$3.35 month's business. There is a brink de2.45. Ment-Qatment, por bbi, \$4.9002. mand for all kinds of cotton fabrics, both 5.00; corameal, \$3 40%; 50. bleached and coloured, and a very fair distribution of heavy woollens, flauncis, tweeds, etc., is reported.

from and Handwa s—There has been a good Western demand for pig from during the week, and several good sixed erders have been taken for forward delivery at abort last week's prices, lead-larg brands having been placed at \$20. atcody at 140015c for clocke brands.

demand is as large as when last reported, and English makers are so has and so ham eithy cured, per 10, 10 to 11 ham eithy cured for the following state dethenty in getting on their goods.

Chocgetia—In sagar we hear of no charge since Last week, granulated being will quoted at 9\hat{g} at the remery, and Montreal yellows at 7\hat{g} to \foralle{\gamma}_{\gamma}. In the condition of Valentia infishes have turned out excellent in quality. According to latest cable advices prices in Denia have advanced to \$5\hat{g}, and, indied, all kinds have this and a car of Western at 12\hat{g}, and as a car of Western at 12\hat{g}, and a car of Western hales of Valencias have been made in the day one boars of sury have clanted neighbourhood of 9c. Currents are very hands at 10fc. We quote as film, the French demand having set in, lows. Butter—wholeads processories which will probably preclude the passes all filts of any lower prices for some time ships, good to choice per it. 21c to 1. to come. The new crop of almondais. reported very short, and prices are pearly 60 per cent, bigher than at this time last A heavy demand continues for tolacco at advanced values In teas we have nothing to report different from last week's review Spices are steady and pepper is advancing. A fair business is reported in tico at \$3.75@ 3 90.

Balt.-We have no change to note it this article, sales having been made at from 571/660c for coarse. Dalry salt is in fair demand at last week's rates

Fron.-The Natchters is expected in port immediately with about 400 to 500 bbls of Nova Scotle herrings on board, and we quote large fat fish from \$5 00% 5.25 per bbl. Dry cod is steady at \$1.00 per bbl.

LEATHER-There is virtually no change since our last week's report, prices here remaining just as then quoted. No 1 bd, solo continues to meet with moderate inquiry and sales have been made at 25c. to 26c as to quantity. Black les hers are quiet at about former rates, and measured kinds move off fairly well for the season.

Boors and Shors-Our manufacturers are as busy as over filling orders for prompt shipment as well as turning out goods for future delivery.

Oils-There has been some movement in cod oil, several lots having changed hands at 42]c to 43c, but holders are now demanding better figures. Lineced oil is firmer and higher at 76c to 77c for boiled and 72c. to 73c, for raw. There has also been a little movement In steam refined seal at 561c. to 57c for small lots. There have been transactions in vat seal at 50c. Imperial, and in steam at 45c. to 46c. We advance coal oil another cent per gallon to 23je to 24o. for car lots, 24je, to 25c for broken lots and 25 c. to 26c. for single barrels.

Davis and Chamicats.-English advices quote more activity in canalic socia and bleaching powder, but no wivance in prices. The improved feeling in bornz noticed by us last week has been main-tained. In blearb there is little doing at the moment, large quantities being obtainable at \$200 while jobbing lots bring \$305 to \$3.20 as to size Bal soda has shown fair volume, although it has is quiet at 00c to 95c in round quantities, and \$1.90 to \$1.10 tor Jobbing lots.

Hines and Sking.—A fair sensonable trade has been done in green butchers hides during the week at \$10, \$9 and \$8 for No's 1, 2 and 3. Lambekins are up 5c to 10c to 75c to 80c, and calfskins are steady at 120 per lb.

Wook-The London wool sales have not given hat eatlefaction which was looked for by the trade, as prices of some kinds have fallen away jo to 10 per 1b. as compared with previous sales. In this market we have sales to report of 100 lules of greasy Caps at 181c, and a lot of Australian greasy at 25c. In domestic week we hear of 32c being paid for a lot of B super.

COAL-Scotch steam is quoted in cargo lots at \$1.75 (\$500, and Capo Breton at Hard coal is steady, stove livered and egg and chestnut at \$5.78.

PRODUCE, ETC .- During the week there have been sharp advances in the price of wheat both here and in the West, No. 2 Causda red winter having been sold in Canada spring at \$1.40%1.41. No. 1 white Michigan at \$1.40 and No 3 Tolodo red winter at \$1 30 \ Q1.37 There has also been some trading in corn at 70c to 71c. Outs have been sold in car lots on the line at 380 per 34 lbs. The flour market has also been firm and a little more active, English as well as Quebec buyers having beet, in the field sales were reported yesterday of 4800 bbls of superior on export account at \$6.35. Spring extra is searce and wanted at quotations. Strong flour is very source and commands full prices. We quete as follows: Flour-Superior extra, \$6.35@r.40; extra arrerfine, \$0,35@0.30

Pagrisions, 270-In mess pork there la still a very limited consumptive demand at \$21.50@22, the high prices being a serious check to lusiness. Land is in small supply at the moment, and sales are reported at 154016 in palls for Fairtanks and 14th in pails for city

demand is as large as when last reported, \$21 to to \$22 than do per the

Morrishing and district, per 10, 26, t 21sc, Western dairy, per 11, 18c to 1 Chrese—Fine August, ps. 11, 11, t Ille, fair qualities, 101 to 101c. 46 , per Ili, Gle to te

Before the year 1729 mustard was litt known, according to the Greere J. c. at English tables. About this time aold woman of the name of Clement residing in Durham, began to grind to seed in a mill, and to pare the fie through soveral processes because it from its busks bie kept be secret to borself for many years doring which she sold large quantities through out the country, but especially in Lon-don. Here it was introduced to the toyal tablo, where it received the a proved of George I. From the circumstances of Mrs. Clements being a roolde, t at Dutham, it obtained th name of Durham musterd. The macfacture of mustard consisted in simp. grinding the secil into a very fine florbushel of seed, weighing 60 pounds yielding 28 pounds to 30 pounds of flour of mustard. A false tasts, how over, arose for having an improvecolor, and the flour of mustard was introduced from which the oil had bee abstracted. Hence other materials, an as capsicum powder, tumeric, terra aib. wheaten flour, etc., aroadded to bilog : the flavour and to increase the bulk

GRAND Provincial Exhibition,

TO BE III ED ON THE

Exhibition Grounds, MOUNT ROYAL AVENUE, MONTREAL,

ARBANGED IN THREE DEPLETMENTS.

AURICULTURAL HORTICULTUI. and INDUSTRIAL, -0PEXS-

WEDNESDAY, September 14th. Executing Horses, Cattle, Sheep and Switch arrive two days later, via FRUDAY, September 18th.

-CL08E%-FRIDAY, September 23rd.

\$25,000 OFFERED IN PREMIUNS

Entries in all departments must be used with the Secretaries in Medical on or bear THURSDAY, September 1st.

Price 11sts and Forms of Entry, with a other information required, can be other on application to

on application to (IEO, LECLERE S.C. STEVENSON, Secretary Council of Agricultus Secretary Council of Arts and Manufacture



Brayley & Dempster.

Wrought Iron and Saddler; Hardware.

Serrie and Strap Hinger a Special

and 49 KING WILLIAM ST. HAMILTON ONT., CANADA. (30.)

HAMILTON COTTON COMPANY

HAMILTON, ONT.

MANDPACTORERS OF Hosiery, Yarns

-480-

MISCELLANEOUS.

ARE PERSENT AND THE EX- Delected Many Grammer No. 245 801 - Front 1

All a ton correspondent witten : I am All a ton correspondent writes: I am proposed that Mr. Mackent's basteness to livery much by his visit to the ciddicate; if it at a year to linguished was of course for the course of t erif ghat active to himand he now feels its strong again. He has likewise spent one time to disagon and Edinburgh its climate of the formation eme time to Glasgow and Edinburgh to the climate of the former city be unit the climate of the former city be essent enamored, and do not recollect arise met area; time any body who was, bring a letge part of ir. Mackenza's ray in the north rale fell more or less ray day and no came to the conclusion cery day and no came to the conclusion that a combination of acout, dues and resta borrid climate to triargow etwad a combination of sour, dust and etwad a combination of sour, dust and etwad a combination of sour to carry wasts and water all the time, while every casts and water all the time, while every mels and water art the time, while every endent must have a coating of sout a lungs and stomach. Nevertheless this impair, together with change of scene that water greatings of walance has imp alf, together with change of scene and the warm greatings of welcome he are restored; have restored; at perfect health, and he sails in a webs time for "clear sky land," reha-

chased mentally and bodily.
Iraid a visit to Sir John Macdonald at
bu villa at Norwood yesterday. He leaves
tat phrasant suburban retreat for London as few days almost completely restored o besith; indeed be says that he reels, if o Besitn; inuced no mays that he feels, if the passage but next month is a favour-atis ook, he will be quite robust again, using to the rapid improvement which ook place in his health he has been able ook place in his health he has been able to capy his stay in England, and has with lady Mactionald raild several vibil to persons of political and social distinction. This week he evised from visiting Lord and lady Rosebery at Montmore, their harming place in Herifordshire. Here it east that Baron Meyer de Rothschild—the racing Baron "—Lady Rosebery's father, sided that to live, and here he built the stables and constructed the harms where that of his celebrated racebore were subles and constructed the names where tost of his celebrated racebors were lied. The Mentmore estate formed part if the carrinous property which Miss if see h de Rothschild inherited on her father's decrase a few years ago. It is a seroutite recidence with her and her husrand sharing their regard with Dalmeny in the Lothians and the Lothians and the Lothians almost nthe Lostians and the Jurdans almost on the race course at Epsom. This was its hutoric residence of the Heatbootes, the last of his race to live there belog the Old Squire," so famous in race course story. Lord Rosebery has appropriately lied the library with sporting books, and the bouse with appriling pictures and rare engravings. It is a frequent resort of Mr. Gladstone's during the session of Pariament from Saturday to Monday, when his duriple and protege, the new Under Secretary of the Home Uffice, dispenses a spication has been table to a congenial circle of cid hospitality to a congrnial circle or ineads invited to meet the Premier.

To return, however, to the subject of my note: Sir John Macdonald intends to

my now: our sound sincounted intends to stead the remaining days of his sojourn in logiand at his old quarters at Batt's florel. Piccadilly. He appresses his course satisfaction at the treatment of his physi-cas, Dr. Andrew Clarke, who has been

Ondesheys, Baltimore, Md. Application isled July 22, 1981. The letters "IX

No. 8,572,-I aundry and Tollet Scap. -lauts Bros. & Co. Buffalo, N. Y. Ap-ilication fylod June 7, 1881. The arbitrarily chosen word symbol " Palms "

No. 8573—Starch, Master, Laufs, Bros. & Co., Buffalo, N. Y. Application (yied June 7, 1881. The arbitratily easen and newly coined word symbol

No 8,574—Starch.—Messa Lautz free, & Co., Buffalo, N. Y. Application tyled June 7, 1881. "The pictorial representation of a female."

No. 8,575 -Starch .- Mosses. Lautz Fros & Co., liuffale, N. Y. Application uled June 7, 1881. The arcitrarily select-ed word symbol "Niagara."

No. \$,577.- Lard .- G. Morris, l'opham New York, N. Y Application fried June .2. 1881 "The figure of the pig or hog" No 8,580 -Smoking Tobacco, Cigara, Cigaretica, Cheroots and Chewing Tokac-to — F. W. Felgaer & Sou, Baltimore, Md Application fylod June 23, 1881.

The word " Derby." No. 8,581.—Smoking and Chewing Tolacco --- Marburg Bross, Baltimore Md. Application fyled July 15, 1881. The tanciful denomination, -- Moss Rose

PATENTS.

No. 215,004 - Cigarette Monthpiece -A A Boutell, Windsor, Ontario, Canada. No 245,704.—Fish Hatching Appara-tus.—O M. Chase, Detroit, Michigan

No. 245,679 .- Mould for Bundling Fish er Pinh Flosh;-N. Webster, Gloncester,

D L William

Brooklyn N 1 No 24 (1) - Plug Tobaco Mill -W

THE TELLORAPH ARRANGEMENT of doubt that the new arrangement is calculated to give investors what they seek, instead of exposing them almost to the westing of the sheet-iders of the Montreal Telegraph Company the day before treat Telegraph Company the day before treat Telegraph Company the day before treat the form the sheet in t little so far on the sulject of the arrangement, which was completed on Wedneyday. Now that the agreement is signed, however, it may be well to remark that, while the ordinary public—we are afraid the nowspeper part of the public must be excepted bere—will lice little or nothing in the long run, the stockholders (meaning those who are steady holders for ingreat risk. As to the public, the restriction of rates to twenty-five ceats per message will keep Canadian telegraphy, as it has long been, like very massage will keep Canadian telegraphy, as it has long been, like very that the Ragilah message. It is true cost of an English message. It is true to that the Ragilah message may consist of the cost of relegraphy in the two countries. To reach the 4,000,000 telegraphy of people of Quebec and Unitario, wires must be laid four more than a thousand miles from west to east, brades all it in cross roads, so to speak, leading of from the main branches. In England, the cost of telegraphy in the two words and the sunt by wires crossing a circle of not more than about twenty-fire miles in the cross of telegraphy in the two words do not suffice? The fact is, considering distinct cross roads, so to speak, leading of the cross to the cost of telegraphy in the two words and miles from west to east, brades all time cross roads, so to speak, leading of the main branches. In England, the first the main branches in the fort the main branches. In England, the first the main branches in England, the first the fir ment, which was completed on Wednes-day. Now that the agreement is algoed. receipts have so far been supplemented out of the taxes, in order to pay expenses; and a few months ago weread a correspondence in the newspapers complaining that there were only some three or four offices in London at which ordinary mestages could be despatched after 8 o'clock at night, and only a few towns where they could be delivered between that time and eight in the morning. Except in the way of taxes, which some profess to like better in proportion as they are heary, no one wants to pay mure than he can help for necessary service. It is, therefore, natural that an arrangement involving the probable raising of rates should not be popular. raising of rates should not be popular, even though the increased rate should still

transacted in a satisfactory maquer, at & price as low as can be elsewhere obtained. price as low as can be elsewhere obtained. The true question at the meeting on Wodnesday was, however, evidently one affecting the interests of the stock, and that only. There are, of course, stockholders; and it is easy to understand that a stockholder with one or two shares and a large telegraph correspondence might be content to sacrifice his trifing dividend for the sake of saving fire orns a measure. Again. If a guntleman had divided for the sake of saving five cents a message. Again, if a gentleman had bought largely of the stock when it was quited low down the ninetee and had sold agains? here accominal holding, when the expectation of this coaling arrangement had put it up to 30 premium, or thereabouts, with \$12,000 or \$14,000 profit and his original capital back in his pocket, he migot, without loss and much patriotic enjoyment, see other people's property out down to 40,50 or 6: cents on the dullar, having the pleasure of knowing that the property was still in Canadian bands, and the loss failing on Canadian pockets. Then when the stock had got low enough for Americans to come in and purchase the control, such a stockholder would, if pagitriotism, indeed, did not stand in the way, be in an excellent position to come in

Colording Tokaco = C Shillippe.

No 24 of a Plant D by all a Class of the kinders, instead of regards. Government to dissent of Red River, inglified in the class, indeed in the W. Word Winston, North Carolina
THE TELLORAPH ARRANGEMENT.

Image intermediate successive and color tentedly lying by wasting their chance, with their past probe realized, really to deal again, are one after another frightened into selling out. There can be successed in the selling of the color in the selling in the selling of the color in the selling in mutual satisfaction which ailes from good uffices rendered and received. The West-

and attentive and assiduous to alming at correct disposits and auccessful result. He has tabulated a somewhat elaborate rigorous in matters oldes and exercise, which für Julu has strictly adhared to daing the period of his coavaletoner.

No 850a—Nankers

No 850a—Nankers**

No 850a—Strunk & Wetzel, Titteburg, Pa. Application fyled July, 1, 1831. "The Scal and till like of the public, in one way or littleburg, Pa. Application fyled July, 2, 1831. The status at described way and Hams—Cairus J. Current of the same public, in one way or lamped to refigure of a shield lawing a triangle strunged and shown in the face simile and the arcs were in the total and the public, in one way or lamped to refigure of a shield lawing a triangle strunged thereon.

No 8,50a—Nanokel, Dirlel or Curef Roff, Divk and Hams—Cairus J. Current Roff, contract recently made between the Gov-ernment and the Syndicate is, that it re-moves this great public work from the arens of party politics, and the personnel of the trust will assuredly tend to confirm the public satisfaction at this result. The issue of these bonds works a west

of the issue at the respectable figure of ninely-two and a half, is an evidence of the public confidence, not only in the enterprise itself, but in the men who have control of it, and the principles upon which the contract has been entered into . The progress made already in the work of actual construction is simply marvellous when compared with the progress of the previous seven years under Government control and direction. There is every assurance that this year four hundred miles of railway west of the Red River, will be constructed ready for enterprise treek but in the men who have miles of railway west of the steel itters, will be constructed ready for traffic, by the Sysdicate; and the intention is that next year the line will be extended to the eastern slope of Americans to come in and purchase the control, such a stockbolder would, if page tootice, such a stockbolder would, if page triotism, indeed, did not stand in the way, be in an excellent position to cone in again with them, and awart the chapter of accidents to once more and 50 or 100 per cont. to the value or his bolding. Those who had the management of the negotiations in the first instance, however had no trions in the first instance, however had no trions in consenses to consider the case of the second of the strongest objections to the second of the strongest objections. who had the management of the negotiations in the first instance, however had no right in conscisence to consider the case of the strongest objections in the first instance, however had no right in conscisence to consider the case of the strongest objection to the strongest objection in the

Another feature of the work which the Syndicate are performing is the construction of branches, for which they receive no subgidles from the Coverment, and which must therefore be added to the most line in deterministing the extent of this work line. It has been a tavoulte argument with Mr Biake and his triends that the subsidies given for the posities that the subsidies given for the posities section are more than sufficient to build section, leaving to the commany a road costing nothing. The best answer to the is that the lines they have already resolved to construct at ouce, my greater road costung nothing. The best answer to this is that the lines they have elready resolved to construct at once, and greater in length than the sigures named in the contract as the contract as the contract section. There is a brunch from Windings running towards the boundary, and their westward to the Femilina Mountains. There is another branch from the main line, at the Assintooine, running southwaterly into the Boutis region. There is another branch running from the main line east of the Assintboine, crossing through Rapid City to the Touchwood Hills, act there is a fourth branch, running from Grand Forks, near the Qu'Appelle, to Fort Edmonton. These tranches make altogether 1030 miles, or if, as is suggested, the branch to the tembina Mountains be extended to connect with that to the Sourie, 1,135 miles. Bothat in estimating the milesge of railway to be constructed in the prairie region, and the relation which the subsidies given to the central section bear to it, we have to take it wo thousand miles, and not simply nice hundred, as is named in the contract. And this, it should be remembered, is independent of the Sauit Ste. Marie branch, the contracts for which are about to be let by the company, to be constructed without any additional subsidy from the Government. Never was policy more algosity or more swiftly vindicated by its Government. Never was policy more signally or more swiftly sindicated by its signally of more swittly vindicated by the re-ults than has been the policy of the Government lu making a contract with the present company for the construction of the Canada l'ac.tic Railway.

NEW IRON COMPANY.

An iron company has been formed of New York capitalists, who have leased for a term of years the property of bir. J. P. Lawless, Ottawa, north of the old Baldwin iron mine, and who intend shipping their ore to Pittsburg, Pa. The machinery will be here next week, and operations will commence immediately conjectured, but it is obvious that, with a capital of eighty millions and wires running all through Canada, the Western Union might, at a very small re. Western have completely destroyed the an idend carulog power of the Montreel Company, and might then have come in and purchased the stock at a song, meking the lines as American as it will be now, but at the loss of many bundreds of thousands to Canadians individually. to become an opponent. What might have bappened can, or course, only be conjectured, but it is obvious that, with a

in weight of production, the world out-side may be challenged to match our arena of party politics, and the personnel of the trust will assuredly tend to confirm the public satisfaction at this result.

The issue of these boads marks a most important epoch in the progress of this transit to Liverpoot, and Florida oranges important enterprise, and the ancesse which the allowed to rings before below great enterprise, and the success which may be allowed to ripen before being has attended the disposal of the first half packed for transport, which would give them double value over green. picked fruit. It is expected that grapes emboded in wheat bran charcoal will keep fresh and plump all winter, without percoptible loss of flavour.

THE ADULTERATION OF SUGAR.

In England as well as in this country the subject of foul adulteration is at tracting uncommon attention, and legislation has been called upon to assist in protecting the innocent consumer, upon whom countless frauds have been committod. Many of the staple articles of food, such as milk, butter and flour, were found by a recent analysis to contain an average of over 18 per cent. of adulteration. In some cases the foreign matter was found to be morely harmloss, but in many more cases the adul-

known that the sugar interest of the mills on the submit level for several

fact that augus consumption and the forms of infants foul that are used as substitutes for their mothers milk is a ogent reason why dang-rous adulterathose of sugar should be prevented

All lave hat have been deried prose ment of augar is starch made from corn, commonly known as glucose, which, although not as harmful as many other substances with which sugare are adulterated is still comparatively worthless in saccharine power, and, therefore, fraunulent when offered as sugar. But the danger of putting into the delicate stomachs of infants sugar that is contaminated with muriatic acid, murlate of tin, or other harmful substances, cannot be exaggerated, and the use of " Neur Process" sugars should be discouraged by all reputable denters, and with greater emphasis by consumers, who can demand augurs that are known to be pure New York Times .

DISTRIBUTION OF AMERICAN FARM PRODUCTS IN ENGLAND.

A recent report to the State Department, by Vice-Consul Doyle, of Man-chester, contains the following information and advice, which we give in full, as it may greatly benefit our producers

I have frequently called attention in my annual reports to the losses which fall on American producers through the imperfect way in which our farm products reach the English consumers. Only very recently a large cotton manufacturer informed me that he had just furnished a firm in his town with 300 pieces of cotton cloth for making coverlogs for American hams; and his firm was one of several that supplied this materi I. These hams come from the United Stater, and on reaching England rnited states, and on rescuing rangiand are done up in English style and sold as English hams at a starp advance. This is sone with our choses as well. Then, too, the English system of supplying retail dealers should be carefully studied and a more direct and comprehensive and a more direct and comprehensive way of reaching these agencies should be adopted. Partnerships should be formed between American and English produce dealers, much the samo as English houses now combine with the foreign trade in many parts of the world for the supply and sale of manufactured goods of various kinds. The advantages to be derived from a proper system of distributing our farm products in English markets can-not well be over estimated. Under right management and with cheap and quick transit, which the excellent steamship-lines between American and English ports now furnish, our surplus food sug. piles could be placed in the hands of retail and central distributing dealers without the delay and expense now named by middlemen and thus secure to our people a largely lacreased price

At present the hap-hazard way of disposing of perishable articles, such as apples, potatoes, etc., in England renders that if they reach the eastern market in their shipment to this country more of a good condition they pay largely. Hither-to, deductions for spoiled fruits have operation. Such shipments might and hazardous venture than a safe business should be made under better methods of disposing of them after they arrive Now these articles of food are largely sold at auction at the port of arrival, and the result is that they vary in price from day to day out of all proportions to the needs and natural demands of English

consumers.

Action is being taken by the shipping firms of the port of London and by the authorities of riverside parishes to call the attention of the House of Commons to the necessity of relieving the Thames of the sewerage of London, Grievous complaints are made of the condition of the river.

Canadian leather is growing more popular Still it sceme strange that the hides of beeves exported to England from the Dominion and the United States should come back here and be converted into loather. American solo leather has taken a foremost place. The fact that the price of bark, the essential of tanning, is about ten times greater in England, is no doubt the secret. The leater exports from this continent to Karope reach upwards of \$12,000,000 This trate is illustrative of commercial possibilities.

Welland. Aug. 25 -The Corporation of Welland has sent a delegation to Ottawa to interview the Minister of Public Works in order to secure a water power by extending a cut from the Feed-orto the Welland River. The expense is estimated at \$6,000. The cut will be about one mile in length and will secure a fall of eighteen feet. The whole vol-ume of water in the Grand River will no doubt be available for hydraulio purposes, and the improved water wheels used at present will render the water power of the Grand River practically un-limited. The necessity of closing the months during the fall in order to supply the Welland Canal does not now

SCIENTIFIC AND PRACTICAL.

APPARATUS FORTIIL PRINCENTION OF SMOKE

Mr. L. C. Louit Sefere the Sufety of Engineer, payed a fall the dec eligition or a simple apparatus for the prevention of simple. The first principle underlying the construction of such removed to an the butter, and a lox fixed on in front On each side of this box rails are placed taside, on which a plate formant is tackward as required Wrin inches, this by cutting of the deatt and Such a thread would call for a groote proventing the condensation of the cases one-eighth inch, wide, cut one-eighth name or common sense, the great mill inch candles. Not the least interesting arising when fresh coals are put on thus inch deep. This would cut the bar half inch cand toil us the put h of the spiral observation in two and leave but a week central interesting from all other animal and vegetable oils that spiral inch server in the cooling of the contract of the spiral observation in two and leave but a week central interesting from all other animal and vegetable oils boiler.

A still more the ple apparatus can be made with the source coults if the opening or flue will admit a higher box To shutters can in cast together in one lifece at an anglo of about 130 degrees, to hang within the best on two pins or bolts, thus forming a swinging shutter A rack is attached to the front of the Abouter to regulate the movement. advantage of this apparatus are. The cooling of the boller is entirely avoided, the gases are consumed so that smoke is prevented, and there is a saving of from 15 to 20 per cent, of licat and coal.

In ordinar open fits grates the same object is attained, viz the prevention of the cold air from coming into contact with the green coal, by removing the fire frimp and substituting for it a cast from box, while h stands out at the back and is open in foot only, and which is filled with com!. Within this lox is a mov-able from plate, which can be forced for-ward carrying with it the coals from which the gases have been extracted and consumed he the lices in front, or inoved lickwards when the lox wants refilling To regulate the draft so that the fire bures brightly in front, a plate is fixed under the grate, coming forward at the bottom. Another plate, resting on plus, is placed on the top of the box to prevent the flame entering the register. By this simple apparatus a bright fire is maintained in front of the grate, half of the lient usually escaping into the chimney is saved, there is little or tio amoke, and the smallest coat can be tiacd, and is, indeed preferable. In kitchen ranges, stoves and vertical boilers, a similar box to the foregoing can be affixed, the morable plate being worked by a love-

This apparatus can easily be applied to locomotives. A lox is placed under the foot plate the whole width of the fire grate, and the coals put in from the By this meens the gases are almost entirely drawn out of the coal and conaumed, the result being that there is very little, if any, smoke. To supply the grate, the coal is pushed forward by a

enovable plate and lever.

HOW TO DEFINE THE SPIRAL IN FLUTED ROLLS

(Extracts from Chordal's Letters in American Machinist.)

In my last letter I referred to the spiral flutes in grinding rolls, and stated that some way of describing the spiral which would at once convey intelligence to the miller who wants the spiral flute and to the machinest who cuts the spiral This is called a "gain twist," and its deflute would be found useful when millers gree at each terminal of a length must login to get as particular about roll dresses as they are about stone dresses.

A miller orders "fluted rolls, eight inches diameter, two feet long, fluted with Y-shaped teeth, twenty to the inch. flutes to be cut spiral twenty degrees, same direction of spiral on each roll Now, what does this miller moan by ucut spiral twenty degrees." Nebody knows out the miller who gave the order. You ask him what he means, and he mays be means simply what he says; that there is to be a divergence of twenty degrees between the spiral flutes and a line representing a straight flute. You understand this well enough, and go shood with the fluting.

Pretty soon you get an order from another miller-flutes to be cut spiral twonly degrees You ask him what he moans, and he says he means what he the specified apace between. Very small says; the flutes are to twist twenty degrees of the roll circle in the length of to the inch the roll. You understand this and go

should with the fluting.

The next man orders a roll cut will a apiral of ten feet pitch. You understand this without questioning, and go allead with the flution. The next order specities the fluten to be spiral two inches in the length of the roll. This is easily understood Next comes an onler: flutes to be spiral one incli and a half to the foot. This is easily understood. Another wants the flute to twist the width of ten flutes in going the length of the roll.

Here are several common methods of defining the degree of spirality, some sufficient in themselves, some requiring explanation.

A spiral is a line traced upon a revolving cylinder by a longitudically progressive point. For examples we have greeslve point. For examples we have the thread of a common screw, the periphery of a propeller blade, the rifle ot a gun, the groove in a twist drill, spiral spring, and the teach of helical

The degree of spirality of a sirew care what the peth is, exceptions a possible of them. Index this form of dwith the election The degree of spirality of a since what the peth is, exceptions of pieces to solutive to them. Indee the found dwith the constant of selections to the disconstant of the solution of the solu

desires most be not to allow the cold have the pltch of threads, the pitch of in the sime minure and till account he content with the passes that the pltch of the pitch of plst, the pitch of course per pitch of the sime minure and till account he cold pressing a notion of the sime minure and till account he of experiments, end point cut the pressing a little that pressing a little the pltch of plst, the pitch of course per to per colle, and for this great teeth he till be considered that spiral.

The simulation of the large name of the large name in the simulation of the simulation means of a succe slop of about tosses or pitches, and the applicability of the word will at once appear

We nivers define a sere withread by its or shutter inus rost, which can be pushed plich, but in certain cases there is a cliance for intennd-ratending. A square pushed form of le passes within the bots thread of a quarter inch pitch, or four to ler and drops over the fire hara some 18 the inch is to be cut on a half inch ter cure

> To get a stronger core, while retaining the rame pitch of thread, resert is had to cutting a groove a sixteenth while and deep, and then cutting a similar gioore between the ones just formed. This gives the "double thread serew," which line no peculiar properties, except that due to a shallow thread.

> In some rare cases circumstances may force us fo cut a triple or even a quadruple throad when, if the piece would be strong enough, we would cut but a single one, the pitch being the same under all

circumstances Now the question arises. What is the pitch of such a double threaded atmagement? The pitch of the spiral is, of loch. The spiral is four to the inch , the

threads are eight to the inch. Machine tool shops does considerably with double and triple threads. All machine tool shops use drawings and systems and what not. I do not know what the general practice is in su h shops when they come to drawings of such screes. In the own practice on such work I have written on the draw-"Boulde squero thread-three to ing the inch " I never knew of any trouble from such drawing, but I saw that the additions to a knowledge of these boiles matter was helped by the existence of certain type whit h such screws were to carbone which constitute the various lusuit. In view of new sizes, I changed to bricating oils derived from rusin and "Square thread-three to the inch-cut mineral sources differ from the oils of double " This didn't look right, and after a while I changed to: "Une-tuint of an inch pitch-cut double-square thread." I can't see that this is anv better. I wanted a spiral of a third of an inch pitch, and, so far as the above specifications are concerned, a workman le justified in cutting the spiral one and a half-lach pitch, which is not what I wanted, but is just what I called for, viz a threed three to the lucb, or enc-third

I have nover heard of any trouble in regard to such matters, and for that reason I never supposed anyone contrived a brief and simple expression which would cover the ground with certainty. I have no auggestions to offer, as the subject might be a useful one for discussion among your practical correspondents.

The propeller screw of a vessel is simply a very short section of a two or three or four threaded scrow, and its dogree of spirality is always expressed as the pitch of one of the threads.

The degree of spirality in rifling is expressed by inches plich of the twist, thus: "twenty-two inch twist." In some rifling the twist starts easy and gets quicker toward the muzzlo of the gun. be given, the twist always being defined by its pitch.

In the Morse twist drills the spiral, commencing at the drill point, gets less in degree towards the shank. They call this an "increase twist," the propriety of which expression depends largely upon of the drill you con talk about first. The degree of this in-creased twist is expressed the same as in rifling, that is by the pitch of a given length.

When the epirality of a wire spring is defined, which is but seldom, it is generally done by specifying the diameter of the wire, and the space between coils. These added together would determine the pitch, but the apring maker don't think pitch at ail. He simply takes the specified size of wire, and winds it with aprings are spoken of as so many turns

In helical genting, a rarely used device for transmitting rotary motion between two shafts not parallel, and not in the same plane, the spirality of the teeth is defined by the pitch of the spiral.

The worming of feed rolls in fabric mills, by winding a tage upon them, is generally described by giving the width

of tape and the distance between turns.

Let it be noticed that the only use ever found for the thread of a screw is to produce longitudinal motion during rota-All we want to know is how far something will more during one revolution. The pitch of the spiral thread tells us this at once. We can think pitch and think intelligently. In a propeller screw we have the same conditions. The pitch gives us an idea at once of the advance per revolution. In the rifle we have the same conditions reversed. The pitch of the rifle tells how for we must travel to produce one revolution. The word pitch conveys the idea at once. In

the proper handle to take Letter it and resin, and they show that he then and automate for the animore of tells us what the spiral will do, and it method of working it is possible to observable. All this strange as it me tells the spiral maker at once what is tain necurate quantitative results from seem, is an actual fact, or will be WALLEST p indept of any other quality. When we case appears to be of a very extended think of a spiral we think of its advance applicability, solving in a simple and during solution—we think p'tch. These accurate manner the vexed question of forts might lead us to ask—wiv. in the determination of parallino in steams

The pit h of the spiral of a mill roll is no more a quality than in a spiral spring The mill man dint ento about the pitch improbably be made available for -iont think pitch-he thinks of the recognition and determination of adultanalo of the flute caused by its apirality Diameter does not affect the pitch of a apiral, but it does after t the angle. It is with this angularity that the mill man lies to do, and we can at once see why he cannot think in p tches

Our school books tell us that a screw is simply a rotary wedge-an inclined plane wrapped around a cylinder. They explain to us how we gain advantage by worlges, etc.

To return to the mill rolls. Let the mill man determine on the augle he wants, on the diameter c' the rell, ctc. course, a quarier of an inch, but the plant and then figure out the pitch of the of the thread is obviously an eight of an apiral. There are easy ways at doing it. and much trouble and t me can be saved by doing it

> ADULTERATION OF LUBRICATING OILS.

Now that the various hadrocarbon oils obtained by the distillation of petroleum, bituminous shale and common resin are being extensively used for inbricating purposes, manufacturers and engineers have become interested in any It is well known that the heavy hydroanimal and vegetable origin in the fa t that they are incapable of saponification. By the chemist, the term saponification is employed to indicate a process by which a fixed oil or fact reacts with the elements of water to form a fatty acid and glycerine or some allied body. This process of decemposition is still called saponification, whether the change be offected by treating the oil with a fixed alkall, as in soap making; by the action of lime or litharge, as in the preparation of diachylon plaster; by sulphuric acid; or by the action of superboated steam, as in the widely practised method of pre-paring stearine and glycerine. The tendency of animal and vegetable fat oils to split up into fatty acids and glycorine under the influence of superheated steam is a point of considerable practical importance where such olis are used for lubricating engine cylinders and unner similar conditions, as the resultant fatty aclife exercise a serious corresive action on the metal with which they necessarily come in contact. It is not too much to say that for uses involving the contact of the oil with superheated ateam animal and vegetable oils are wholly unsuited, and should be replaced by the hydrocarbon olls. For many other purposes, however, the fat oils are hy far the inost autinble, and, for some, indispensable. Unfortunately, owing to the comparatively low price of hydrocarbon oils, they are now extensively employed

for the adulturation of fat olla, with the not un requent effect that the resultant mixtures are wholly unfitted for the pur- known. poses for which they were intended to be used. As an instance in point may be mentioned the adulteration of the olein used in spinning wool with vari-ous bydrocarbon oile. Buch sophisticated oil is but very imperfectly saponifloable, and hence its subsequent re-moval from the wool is attended with great difficulty, whereas a garuine obein can be washed out with fa lifty. So great has the evil become that manufacturers have been compelled to subinit samples of oils they intended purchasing to professional chemists, with the view of ascertaining the'r freedom from admixtures of hydrocarbon oils. Unfortunately, this procaution has not always resulted satisfactorily, for the results of the chemists consulted have often presented wide discrepancies, variations of 30 per cent. In the proportion of mineral oil stated to be present being

not uncommun. These differences are due to the very great difficulty which exists, or has hitherto existed, in making an accurate quantitative analysis of mixtures of different kinds of oil; for although the fat olls are distinguished by their property of forming scape, the preduct obtained by treating them with alkeliet is capable of dissolving large quantities of the hydrocarbon oils. To separate the unaltered reineral or resin oil from the soap in such a manner as to render the procers quantitatively accumte has been a problem which has engaged the attention of several chemists, and the imper-fect solution of it is the explanation or

the language of the shop, as "ten to an is not a functional quality of a spainty inch." A certain very ignorant class and is secondary in every way whose centres were communicated in a cur me, at least to mark them by a peak of a sumble ten tup."

The word spitch is not intelligibly adde with reference to the pit h of the understood by many shopmen when used spiral, just like a row cutting on an extension of the pit h of the spiral cutting in the same number and tall as visit. Superments, and details large number to describe and the pit h of the spiral cutting in a cut in a spiral cutting in the same number and tall as visit. Superments, and point cut the pressing a button attached to a cut may be a communicated in a cut may choose centre were communicated in a cut may choose thous analyst is any to fill. In concluse electric vine, known will be at the spiral.

Lies patch a cose to be the countial sion, they cite the results yielded by a ministure telegraphic apparatus to quality measurable to apparatus to the constant of t The pitch of a spirit teindes the most diverse mixtures. Their proexamin de in not yielding glycerine by its saponification. This fact may not crants in sperm oil. Probably there is no class of products so much tempered with by unacknowledged admix-tures as the oils, and we hall with satisfaction any advance which may be made in the means of discovering such illicit practices Those manufacturers and enginoers who value their machinery only require to have the importance of the matter pointed out to take steps to remedy what is at present a widespread evil - Iron Age.

THE FUTURE OF ELECTRICITY.

The remark is common enough in the mouths of the common people as well as of the scientists that the future developments of electricity, as an applical art, have been as yet only dimir foreshadow. cd. It is the modern miracle worker. and after the telegraph, the telephone and the phonograph the world is very ready to receive with credence my statument of the wonderful things yet to The fairs which Boston is to here this fall will give us a clear idea of the progress of the last few years, and this department will not be equalled in the amount of interest shown in it by any other in the exhibitions. Meanwhile, in the French capital preparations are going forward for an exhibition to be held in the coming fall to be devoted entirely to electricity and its applications. It will give brilliant illustrations of the present condition of the science, and prefigure the progress to be looked for in the near future. The exhibition will be held in the Palvis de l'Industrie, to which visitors will be carried on an electric railway. The trains will constat of two saloon carriages, and an electric motor which will take from the rails the field supplied by generators at the end of the line. In the centre of the Palais will be a small pond in which a stramer will lay a submarine cable.

In the basement of the building will be illustrated all varieties of suc's cable and wire manufacture, adjoining but not forming part of the official portion of the exhibition, which will comprise all forms of Government electric apparatus, manipulators, recoivers, piles, telegraphi pusts, insulators, switches, and thousand other matters of necessary detall in the complicated system of commercial or military telegraphy. Tower- is not often that the reporter of a deliving above the building will be an impaper denotes the difference in his remease lighthouse carrying a light of great power. By daylight the visitors to tween a "plunge," and a "piston," bethe exhibition will watch the operations of a whole army of telegraphists, machinists, etc., while at night this swarm of operatives will be visible under the glare of a thousand electric lights streaming from the roof. It is intended to include among the illuminators overy known

burner, and a score or more are now hibition we may look for fire alarms, electric dials, municipal and police calls, plain. etc. The railroad companies will show their signal systems, electric brakes and alarms, and a new carriage for registering the velocity of trains, force of wind, consumption of steam, etc. The upper story has been devoted to scientific curiosities and fanciful inventious for the delectation of the curious but untechnical observer. Telephones will be con-nected with the theatres and the opens, and the visitor to the exhibition will be allowed to hear the utterances and the music at any or all of the places. Connection by telephone will also be made with distant cities Next will come a series of sight rooms, literal copies of a Parisian apartment of the present day, where everything will be, so to speak, run by electricity. The kitchen will be lighted by electric lamps, the range licated by electric currents passing through water; a helf dozen cooks by means of incandescent platinum wires, will turn out walles and cakes, and sicotrically heated metallic plates will serve for braziers and chaffing dishes. dining room will be fi ted out with all the wondrous new apparatus which already threatens our praceful firesides wills its movel blending of science and comfort. The central sunlight, in place of a chandeller, can be lighted by the pressure of a tutton or the opening of a door. The dishes will be brought up on au electric dumb waiter. The only thing left to do would seem to be to eat by

sceni, is an actual fact, or will be your Applications for space base is ponting in, and the list are now that the exhibition will be established a sides being very unline

OVERHEAD HEATING

The system of overhead hereby, manufactories and mills be m me ... atomi pipes te heing very general adopted in Now England, and is recommentical by the Insurance companie. The first objection usually made is the heat rises, but in point of fact, the mu nection of heat from pipes to by radio tion, and does not follow special dire tion either upwant or downward undthe neual conditions of a factory It is slimply a question of diffusion, and the best place for the pipe la where the radiatton or diffusion is effected in the test manner. One of the grantest dangere t. which factory buildings are exposed, and one of the heaviest causes of lose, is the collection of combustilie matter o steam pipes, where they are colleante placed at the slifes of the rooms under the windows Me Elwant Athieson, president of the floaton Manufacturers. Mutual Fire In sumned Company, recent. ly addressed a circular to the managers of fifty-two mills where this system is employed, asking a number of questionto draw from them the results of their experience with the overhead pipes, and received forty-two answers. Out of the forty-two repil-a two were unfavourable two were unfavourable, but were qualifield by statements that showed their apparatus to be poor, one was favourable with exceptions, and thirty-seven were absolutely favoramole. In respect to economy in heating the answers varied from nothing to twenty-five per cent saved, and the greatest saving was aboun where the pipes we e away from the wood and brick work, and therefore lost nothing by having the heat conductod away. Among the inilia which sent fivourable answers are many of the largest in the country, and they do not speak until they have thoroughly tested the system. The colls of pipe are generally placed about two feet from the celling on hanging brackets from the beams, and one and one-fourth inch pipe is the best adapted for the purpose. In addition to the eafety from fire, there is the economy of space, and every inch of floor space is available. The system is one that should commend itself to those who are engaged in the manufacture of luflammable articles.

MISUSE OF MECHANICAL TERMS

It is amusing and vexatious to the intelligent mechanic to see how plain mechanical terms are misused and misplaced in the daily and weekly press. It is not often that the reporter of a daily port between a "cam" and "wiper," between a "cylinder" and a "caso," between "flica" and "tubes," between "piston" and "valve," between "pitman" and "connecting-bar," between "thread" and "screw," botween sahaft" and repindle, and a lot of other popularly considered synonyms. But this is not so much the fault of the general reporter as that of Among the "locvitables" of the ex- nomenclature to make his business avsterious, when it should be perfectly

Our mechanical nomenclature is creatly deficient in exactness. There is no acceptible reason why names of parts of a machine should not be uniform in the language. Of course, it is not to be expocted that a German, and a Frenchman, and an English speaking American should use the same term in speaking of the same part of a machine, but there is no reason why the people using the same language should not employ the same terms in spoaking of the same well known parts of a machine. There should be gotten up a dictionary of technical-shop-terms in English, that should be comprehensive enough to meet the wants and secure the approbation of intelligent mechanics. for enough in the fact, but we it's mit What is the move at all in the word. use of calling a cylindrical shaft at one time a "shaft," at another time as "arbor," at another time a "spindle," at another time a "mandrill?" It is the same thing at all times, only it may be used for one purpose or another, or in one position or another. Why should " "roanier" be called so in one instances and be called a "breatch" in mother? It can hardly be because our is larger than another, for there are great veriations in the size of both What writer on mochanics has decided the proper orthography of the top part of a machinist's hammer? Some call it the discrepancies already referred to as observed to be to eat by the "pane," some write it "peuc," and commonly occurring between the reports accomplished, even that seems not so "tamp pin," meaning the same thing of different chemists having such matapiral springs we deal with new conditions. Nothing revolves, and we don't of different chemists having such mattions. Nothing revolves, and we don't of different chemists having such mattions. The pariour will be Some mochanics do not know what a

POSTAL TIME TABLE.

FRAUML AND CEPARTURE OF MAILS.

, w [2 m]

S 00

. 130

fl. P. DAKER, Postmaster.

Registered matter must be posted balf an hear previously.

Office hours from An.m. to Ap.m. For Sav-ing, Bank and Money Order bus ness, ya m.

twenty-four hours, whale oil only feur hours, and fish oil two hours. Sper-

mareti oil, froe of glycerine, did not ignite at all, neither did heavy tar, coal

any previous visitor---aturally suggests the question whether its literature (which has really proved rather voluminous) has

has really proved rather voluminous) has added anything to our knowledge of a-tronomical chemistry. It will be owned probably that the chemical inquiries of Professor Heary Draper have marked an era in such studies, and that, in the direction they have given to astronomical research, they are at least of the highest interest and value. The curious fact about the construencing investigations of the

Proctor was one of cycles of development in the bodies of the universe, some being in a state fitted for the inhalitation of liv-

ing beings, others advancing slowly to-ward that condition, and others either

tar or slate vils

1, 00 neon

£ 40 4 0/ 300 2 00 : "H{ A CC | 2 00 | 4 W | 4 m | 2 00

: m

and with the suppose rise of an excess rise of the first in the distribution of the first in the distribution of the first in the distribution of the first interpolation of the first conditions of an arrow but he welsout experimentally with anchors of an arrow but he welsout a featist he arrow of its category in that might be primitted be arrow of its and might. But it is lard to distribute arrow from the fattin tree, and may come from the field arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill may come from its own arrow its and man frill driven by hand. But the arrow its interest in the maker of a hole—in the other care, is not so apparent. We can see may a wirth should emake a hole and a borer should enlarge a hole atternal advances for the interest the keep and in other places not so apparent. We can exposed to the cold polar or treat interest there is a time at the latter may be lower in grant time it is the interest the keep and in other places not so exposed to the cold polar or treat its interest in the latter may be lower in grant time it is the interest to the fall of the commencement of its new formation than latter.

Some leaves the training the fall of the control of the interest the keep and in occasion to the cold polar are at the latter may be lower in grant time in the interest the keep and in other places not so apparent. We can exposed the location of its new formation than latter.

Some leaves the fall in the interest in the inte ada i borer should enlargo a hole at-later, ady made On there two last terms Con

HEATING STEEL.

Buch of the difficulty experienced by nachinists in occasional attempts to nachinists in occasional accomple to large their own tools comes from improperly heating their steel. To produce a sood cutting tool, steel should be heated no more than is necessary to forge and temper. Follow the solvice so frequently given to heat slowly, but at the amount me avoid being too long in heat-The best results are obtained by a m derate, even heat, until the proper degree is reached, and then forging at once It is a great but common mistake in allow the piece to come to the proper heat and then ile in the fire with the blast shut off for some minutes.

While this should not be done in the process of forging, the practice should be inficularly guarded against when heat-ing to harden. In the process of forging the hammering in same degree seems to restore" the steel, but when the tool is sadened and tempered from such a heat there is no possibility of its ever being of such use. In tempering the drawing should be done quite slowly, as in this way a much better cutting tool is pro-oced than when it is appidly performed. The colour is by no mosas a sure test

of temper, since different kinds of steel to not take the same colour for equal air degrees of hardness. This is also true of suit ared that had been worked considerably, as old tools. The only guide in this respect is experience and judgment

S'cel for tools shou'd never be heated, either for forging or tempering, in a fresh cal fire (unless it be charcoal)

If coke is not at band the fire should e allowed to burn until the gas is burned out of the cost before the steel is

professor knots of the Naval tibsertain the vegetable fibre The first
professor knots of the Naval tibsertain the vegetable fibre The first
professor knots of the Naval tibsertain the vegetable fibre The first
tory at Washington, beneves that the
typerfeed milk, when nearly prepared, will keep for many years.

The disappearance of the comet of the
tiberat of potash or a mixture of the
tiberat by them.
The disappearance of the comet of the
tiberat by the benevation
to the self of from, copper,
these tails had any substance, to argue,
the disappearance of the comet of the
tiberat by the first boxes are visited at #15 a.m.
The disappearance of the comet of
to self of from, copper,
these tails had any substance, to argue,
the disappearance of the comet of the
tiberat boxes are visited at #15 a.m.
The disappearance of the times the professor with the self of the same, acting upon it through the medium a high temperature. But this method oxidation was too mpld and destroyed the vegetable fibre which was to be dred black by this colour. The question was, bow best to subdue this oxidizing agent and keep it within proper limits. The int attempt was by the action of hydroiluosilicie acid upon the chlorate of jotasli, which would be harmless while cold, but which would produce a power-tal agent known as chlorio acid when heated by the decomposition of chlorate of putesh, thus forming a hydro-fluosillsate of potash of the free chloric acid, in such small quantities and from time to time as thoroughly to oxidize the smiline without injuring the fabric. This probromic acid was used to aid the process and also clorate acid, as bofore. Especial attention has lately been directed by chemists to the manner of using the chlerates. In place of chilorate of potash, the chlorates of sods and baryts, though considerably more cretly, have been used by calico printers, because of their greater solublity, which renders it possible to add a larger proportion to the colour. Thus a more powerful chiloric solution is obtained and there is no fear that the result of dyeing with smilline blacks, but burst out. In another experiment, made by the above arbettution this save deed on the colour keeps well and requires only a slight warming to make it ready for a slight warming to make it ready for a slight warming up steam aniline blacks, use. In getting up steam aniline blacks, another room where the temperature was another room where the temperature was left at 120°F, cotton mixed with a little to clour contains yellow principle.

The colour keeps well and requires only saturated with crude linesed oil ignited two established, or, at least, or at leas blorates will crystallizo out in the

all lave no believed from the agree & rath have be a at lace to technical money to one a North have been a total centre mankey when he less the position of the one of the centre which has nothing with the distance of texts he attended of with the Suome trib. Luttices if with definition it escaped to come in a with the suometric less than the first of the centre
ady made. On these two last terms chanics are generally agreed. But it the Tyrol toat suffers very muco frem lack of nachanical terms might be of use melad) should attempt it.

The microphone to solve the midte, and the microphone to solve the midte, and the microphone to solve the midte, and the microphone to solve the midte, and fullings' littles. of natural moisture, but on which, from the formation of ite bills and the density of the woods, be har long beneved that there were hidden strings, has employed the microphone to solve the riddle, and with excellent success. Along the toot of the bills be has several instruments, and has connected them with an insulated telephone and a small battery. In the night, when the sibrations of the soil are few at, be listuaged to substitute the soil are few at, be listuaged as the night, when the sibrations of the soil are few at, be listuaged as the night, and attendy has been abla thus to discover and aiready has been abla thus to discover several springs, which he has turned to practical purposes.

An Austrian obemist is said to have de-An Austrian chemist is said to have de-eled some time ago a new soporino, the action of which is so rapid and nowerful that a few drops of it sprickled on the bead and face will stupefy a man in a few seconds and render him utterly defenceles. He gave it the name of liandinger, or "tamar," and offered to sell the secret of its preparation to the Austrian Gorera-ment. But the Gorerament has not only

its preparation to the Austrian Gorerament. But the Government bas not only refused to purchase it, but has ordered the police authorities to formally order the inventor to dis unitsuse his experiments, and to abstain from using in any way his inventor, or communicating it to offer the under pain of being climinally dealt with For production of marble or would paper, in which the various tones of colors are not limited by starp lines, but to be seaso so stify into one another than the boundaries are not recognized, liver General, instead of metalic ones. Their interest, instead of metalic ones. Their identifies the factory of which the calculous or other elastic insterial, instead of metalic ones. Their identifies the factory of which the calculcture is turned and suitable for the purpose. The rotters have not make the wooden disks at the ends, over the edges of which the calculcture is turned and the with glue and wire, so acto make the roller alterible. A bellow asis cuters of the wind through this the aft case of many has invented a new description of typedo or submarine busis, whose peculiarity is that it a capable of manufacture, under water at twelves bours of from one busisers that it wide and spits of from one busisers it is lisable to act at depits of from one busisers it is invented with a vacuum gauge and test sincks. Each of the output from one busisers to reter to a reconstruction of the contents may be obtained from the busisers to wood and the busises of the invented and the output is that it a capable of the contents may be obtained from the busisers to wood and the submires to each of the contents may be obtained from the busisers to water the submires to seven of from one busisers to reter to seven of the contents may be obtained from the busisers to water to seven of the contents may be obtained from the busisers to each of the contents may be obtained from the busisers to water to be of the contents may be obtained from the busisers to seven of the contents may be obtained from the factor of

A Roumatian engineer. Trajau lucodoresco by name, has suvented a new description of tried of submatian boat,
whose peculiarity is that it a capatio of
maturating under water at twelve bouts
of from one bundred feet in tivers to seven
hundred creight bundred feet in the sea
it is able through the agency of acrews, to
inseverable through the gency of acrews
and can more or maturate in any direction. The tilumination of the vessel is internal, and enables the offeres upon her manufactures under was rat twelve bours the condition of the contents may be obtained as equally applicable to steel itsed on from one boundred test in the sea it is able though the agenty of acress, to rest of the most important uniline and one which has been the substitute of the most experiment, is anilline to the the internal, and enables the officers upon her to fithe most experiment, is anilline to the fit should be understood that the aniluse black is simply precipitated extent to the content of the contents may be obtained in the condition of the contents of the condition of the contents may be obtained in the condition of the contents may be obtained in the condition of the contents of the mail that condition of the contents of the mail that condition of the contents may be obtained in the condition of the contents may be obtained in the condition of the contents of the mail that condition of the condition o

violated of them. The great comet of 1843 went so near the sun that it passed from one side to the other in a few bours. irom one supero the other in a rew bouts.
Its immense tell, 100,000,000 miles long,
was shifted commercity, so that it pointed
directly in no opposite direction. Could
that be so if it were composed of any substante? Could a comet swing 100,000,000 miles of tall around so quick as that? The Stable ? mites or intensioned so quick as that a two electricity is generated by evaporation. As the comets approach the sun, the real becomes more intense, the ovaporation and accumulation of electricity more rapid, the repulsive force greater, and the tails languar. Sommining the material betails longer. Sometimes the material broomer completely evaporated. Then the comethes no tail.

A. Ronouard, of Rouen, France, lias lately experimented with greasy rags to ascertain the degree of their inflainmability under certain conditions. He took for this purpose a quantity of cotton rage, saturated them with boiled linscod oil, wrung them out and placed hem together with dry cotton in a box about eighteen inches long, eight inches wide and two feet high, in which he put a thermometer in order to watch the increase of temperature. The room in which the experiment was made was kept under a temperature of 170°F. The mercury soon began to rise, and showed within 1½ hour, 340°F, smoke commenced to come through the fleures, and as soon as air was let in the fiames POSTAL TIME-TABLES.

POST OFFICE, MONTREAL.

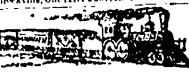
RAILWAY TIME-TABLES.

_____ | Canada Central Railway. F MARLS.

THE STATE OF THE STAT

em Exitor Tive, in the correction with term is Railway for the first points. Weet, critical points Weet, critical points Weet, critical points at the first points at tarter in Justice by the first points at tarter to Justice with prefer levels Smith for it is possible.

pinefor Perth Smills For the Cockstill Copies in terrain from the Meet with Train for the death of the Committee Train from blockstill, in the probabilities and all interdict estation and all interdict for trains used, only four of pa between was and Blockstill Janckston was all Brockstill with the case of Block River R. E. t. T. New York, and Black River R. E. t. T. New York, and Black River R. E. t. T. New York, and Black River R. E. t. T. New York, and Black River R. E. t. T. New York, and Black River R. E. t. T. New York, and Black River R. E. t. T. New York, and M. KINNON. All HER BAKER. Saperintendent, Cheneral Januager, ekville, Unit Elst June, 1886.



. LAWRENCE & OTTAWA RAILWAY.

On an Lyster THURSDAY, 16th JUNE, 30, trace • will run as follo c• -

IT US P OTTAKE. r the Bast, West, Nouth and it 15 a.m. r the Fret 200 p.m. 10 30 p.m. om both East and West

ARRIVING to OTTAW

om both East and West,

om the East, bouth and bouth

4 0) p.m.

of 10 a to

East 4.0) p.m.
cont the West.
thing West take the Ham, train. Anaple
me for dinner at Present Junction
Sure Connections with tirand I runk. Trains
and from both East and West, and with
loss of the Rune. Watertown it indenarg and lake Champlata and Utica & Bitack
dier Reliwas at Ordensburg, to and from
lew York, Loston, and all prints South and
act.

liver Rillians at Orientours.

Leaf Steamburt Express Train will leave Mitawa on Tacellars, Thursdays, Saturdays and Standays and Standays and Standays and Standays and Standays and Standays are seen the St. Lawsonce, for both East and West.

A Nota Cer will be run on the Mitawa Street of Human and Present Junction.

Trains are sun on Original limits.

General Manager, Ottawa.

Q. M. C. & O. RAILWAY. CHANGE OF TIME.

	Cowner, tung	a will time a will time	dnesias. J	nor 227J.
J.		Mize t.	Mass	Fapress.
∞	Tenre Hoche-			%15 p.m.
	laga for flul! Arrive at finit	1.00 6 70.	8 X α m. 12.49 μ.m.	
	Leave liulifor		. '	
0		1.00 a m.	F. 30 a. 10.	700 Pm.
	Arrive at	10.30 a to.	12. 7 p.m	₽ 15 p.m.
	310-20-2-		Night	•
25	Leave Hoche-	ļ	 	I
2.)	laga for Que-		1	
15	bre	in the print.	1 10 to L E	3,00 p m.
15	Arriveal Que-	3.00 p in.	• . 🌣 a. ъ	. 9 20 p.æ.
	Leave Quebec	·1	1	ļ
15	for lluche	1.312 0	0.000	[0.1 · a.m.
	Arrive at	1.	•	1
	Horbelaga	₹.20 2.m.		1.10 Lm
	Leave Hoche-			1
	Jerome.	153.pm.		
	Arrive at Si	11.00	Mixe L	
15	Leave St.			I
	Jerome ter		LUS a TB	1
15	liceholags.	d		Ī
, 13	llo belaga	1	ערם לע, י	••••

trains to and from Citaws councet with trains to and from Quebec. Sanday trains leave Montreal and Quebec

All trains run by Montreal time.

GREFRAL OFFICE, 13 Place d'Armes Square.
Ticas y Osricea, 11 Place d'Armes and 302
St. James St., Minntreal, and opposite the St.
Louis Hotel, Quebec.
L. A. SKNECAL,
General Superintendent.

INTERCOLONIAL BAILWAY.

CUMMER ARRANGEMENTS, commence 10 ing 14th June, 1890:
Through Kapress l'assenger Trains sun dally (except Sunday) as follows:

1.00 p.m. 2.05 p.m. 2.11 p.m. 2.11 p.m. 10.16 p.m. 10.16 p.m. 2.10 a.m. 6.06 a.m.

D. POTTINGER, Chief Superintendent.

	_		٦,	al.		•		, 15	-	۱,	١,		1 66), 1 (*
Ì			•			••	-	int i		•	1		•	w	٠.
		l I	. 1	M.	lutu	17, 4 1 4 10 4	۸ دو از	161	ru ruj	۰ إ	1.	4 47		c L	٠,
		•••		t s	1 41	.1.	14			l 13 .	. r . i		† <u>.</u>	Ty	۲۰.
		ı	'	<u>:</u> 1 1	111 111.	6 (6 ()	20 20	-ΤΙ ι	.R\	ı			"	ind Link Use	•
		۱ 🛪	'.	. :: •	اوروا	ih	ree	Ray	и:	 	-			F) E-	ve
	1	ί	- I	ų Ų	rtb VE. Ne nt bu	1. A 1. A	0 1	liy m z		1		1 10 6 W	١.	}` ₹ 1	×
	(1	٠	٠ .	19	ii bi	r by	11	il Vi	։ հայ∗	l	1	% (V)	' '	il.	7(
•	•	1	i	ı,	r-ya Picc	An.					- {			ID.	
		12	ام:	i Ja Sici	ant idei	li) Stal	R	. :	Mair		_		- 1	OH4	
,	z	<u>ا</u>	. ¦	100	nne N. In I	Jet	C)TB o	. 80	d St	i.	-		•) (1) (1)	91
	5	١.		٠ŧ.	lle)	nt d K	i II	COL		- 1	- 1	2 0	ام	r. A Ber	
×.	11	0 12	45	\ \ \ \		acl	ntbe etc	•	Sher	' È s	إی ;	2 X			_
۹	¢	ol .			ton in:l					<u> </u>		8 7	"		J
٥	·	้		1	ind loo	12	1	ani Jani	1	١.	g on			ij	3
O	(١,		141	lou.	lain tia	۱۳,	\ e:	rinoi e Tui	Ŋį		١.	\		~
1	1	n		1 '	H			į,	٠	1		3	ן יו	2	T
		w .		1	ntb en col	ja a	תית הו	13	1,0,	٠,		8	ωl		٠
		-		1	enic whe	łait.	. ne	. 11	11 fa	T		1	- 1		G
		- 1		1	Par and	kel,	lei	TIN	gÜ	ւն				15	
		İ		1			LM	-	<i>s</i> .	i		İ		r.	,
	ı	إج		ŗ	reo	iers	infe	Rou	lo.		0.0	, l		F.	•
ľ	1	ارد		i.	ini.	neri ur. rebe	Var	יתת	70 6	i		,	4;	F) [
		30	5.	ექ 30.1	·	44	1 am	1 Yes	1		6	ກ 2	00	Į.	ro
١	•		8	jo¦(ann ote No	ët. tre	Ar Dao	itoli ne d	0 (11	ind ace	6		45	1	t
١)]]]	30	Ι.		ir. I Iun	пре		IB			0	D) 2	01	ŧI	1
Į.	10	30	,	30	100	ueu	ill In th					و ا) (S	1 10	٠.
ı	t	800	١.,		AL	יזומי	•		ult-	e u	6		2 30	. 1 1	bo e ll
۱		g Or	ı	ŧ)le Terr	۱۱ صاد	ct		si 1	'n	1	- 1	3 3 4	-13	
١		8 3	٠,	30	ce Poly		. CL	1			İ	00 1	15	19):
١			į i'	37,	S1.	A 11	rent t. E	, Ft	ء ال على	7112	17	∞	(A	5 ;	li
l		0 ((Nor	יהחז ויאנו	nore Hele	17.1	1.1 10	out	اء ا	∞¦:	3.3		ь
		9 (1	-	7	Hò				۱TŁ	· u	1	00	3. (1	
	•	1.(11.6	ı						644		ι ,				, ,
֭֡֝֝֝֜֜֜֝֜֝֜֜֜֝		۱۰ ۱	•		- 1	a I Lua	21	100		*1	41	ا امه :	5 (ın	C
ì	1	4. X	ç		•									1	•
1	ŀ	10,5)		Ne	• 1	l.	an	4 5) 1 1 t	٠,	ייאס (ייאס ([5.		(
å	l	8 (1 00	. 3	l Esti	ar I	tete l'o lair	od,	l'or	tlad	ı		2	ر ارد	`
d	l	8 .k			•15	esti	•12	80	P	acit	le ,		[Ŀ	- 1	
١,	1		1		1_	tale Pri		T 'S'	ET	٠.	;	15	8 	۱ ۳	1
ľ	Ì	πu		iE/							ı		7		í
b		ĺγ	(A	ned tor	BR IAD	fão L	6 (3)	it Di	eme	ats.	3	e ar	į	-	,
þ		IJт	CA	لحجوا	ian Ti	מאד	0, 11	fin	2 D Y		i		7	59 25	1
a) (J	Su	Ce prioti	tm(ru (. Jota:	31 OU	160	P. U). 4	eek	ןעו			15	•
	١	By	ine.	i e k	et (\ d (\ org,	rom Yed	. N	a)).	Yutl	k Ý	ا 			15	
	١	By	lla	m t	urg Iy l	Λ Y	eric loca	an Jay	l aci	ket	to		2	15]
h	ı				15E	ST	INL	IES	3.						
k	٠	Įĸ,	tte	r. kar	etc ro to	, pi	rde.	ted Libri	in ly ci	Š	- m				
) k	1		1 01	×ι.	. ***	CLCC		13114		* •					١.
Ì		F	r II	AV.	NI 104 1,61	and cry	Thu	et I red:	ndie Wys	4, 4 111	****		2	15	!
) (_										 m	.10	15	١
	ļ	9.1			Cal	e Da		nen	401	חם.פ	n.o	٥.			
8		1	ŧ.	: ::		ាំធ	172	41	110	ited	ı ai	J 15	s a .	to .	ì

12.31, 6.30 and 7.32 p.m.

Heristered Letters should be posted 13
minutes before the hour of closing ordinary
Mails, and 33 minutes before closing of Kage
Halls, and 33 minutes before closing of Kage
Halls.

spectrum of three or four bends only, and is a very crude physical body; it may be considered as no more complex than a comet and no more balatable. Between comet and no more halatable. Between Vega, which is a stat of low physical development, and Capella, which is one of the meet advanced, every variety of spectrum is found, but no evidence of carbon, and none consequently of life. The evidence of the spectroscope, indeed, appears to indicate that most of the bodies of the spectroscope and the spectroscope and the spectroscope. terest and value. The curious fact about the spentrucopic investigations of the Profess or thus far consists in the destrution of an astronomical doctrine set forth with great literary skill and elaboration by Mr. R. A. Proctor in tits lectures a year and a belf ago. The doctrine represented at that date the ripest largest and most salightstellar universe are in conditions approximating to that of the solar orb, and that the hypothes's of hundreds of habitable worlds existing among them is not one that can be entertained. Indeed, until carbon as an element is detected in the ago. The doctrine represented at that idate the ripest, largest and most enlightened interpretation of astronomical physics, and it is a curious fact that a generality so brilliant, and apparently so well sustained by astronomy, should have been placed in a questionable position so soon. The theory advanced by Mr. Beaton was an of sales at development. stellar universe, the con reption advanced by Mr. Proctor must be either abandoned or held in abeyance. An advance in complexity of physical constitution is constantly observable in the indicatons of the constantly observable in the indicatons of the constantly observable. stallar spectre; but conditions of the sur-face comparable with those obtained upon the surface of the earth have not yet been discovered beyond the limits of the solar ward that condition, and others either sensecent or in absolute sensitity. Now, carbon is the specially essential element of life—its physical basis. Hydrogen, exygen and nitrogen are requestes, but they are less the basis of living matter than their wonderful compact in terrestrial chemistry. What the sieller receaseless of Preferance

stellar spectra; but constituents of the surface comparable with those obtained upon the surface of the earth bare not yet been discovered beyond the limits of the solar system.

There are now twenty immonse glicopee factories either built or in process of construction in the United States. Already a capital of \$2,000,000 is invested in the business. The daily consumption of corn for the manufacture of glicopee is about \$3,000 bushels, and the annual amount about \$1,000,000 bushels. All the factories are run day and night to meet the demand, and still fail to

ACRICULTURAL IMPLEMENTS A. S. WHITING MANUFACTURING CO. Color Pole, One - Manufacturers of section, or

WELLAND AAFE MANUPACTURING CO. Lock No. St. Cotherine, One, that a main - Monufacturers of area, softer, take, how, rekeamal edge tools

ANILINE DIES EMII THOURET A CO. Montreal - Agents for L. Solder, Offenbach O. M. Germany

BRASS WORKS Table 10 . Montreal - Brase Sulchers (15 to 16 rs. 1 to 27 umb manufacturer.

BRIOGE BUILDERS

LORONTO BRIDGE CO. Toronto Builders of Sc. 5 and from Railing and fighway bridge.

CAPS AND FURS John Services to the trade only.

CARPETS.

PPTIEV & CO., Midden Mriffin, 124, 10 and 1tt. hone parest East, Toronto - Wholesale carret dealer-

COTION BROKERS.
M. WHIGHT, It day, Out—ole agent in tanals for O. ...y & Mediure, cotton factors, Nashill e, Tenn.

COTTON MILLS.

10 ND AS COTTON MILLS CO., Dandas, Oat.
tire; domestics, dealms, tickings, yarns,

etc.

HAMILTON COTTON MILIN CO., Hamilton.

—Beolms, tickings and yarns.

JOHN MACKAY, Dundas, Ont —Manufactury of svery decemption of cotton warps and yarns.

EOST TOOLS.

P. T. WILSON, Dunder, Ont.—Manufacturer of aver, picks, tasttocks, grub boss and rait-way contractors' supplies.

ENGINES AND BOILERS.

ENGINES AND BOILERS.

O. C. MORRIGON, Hamilton.—Engines, boilers, steam hammers, etc

THOS. WILSON, Dundas, Oct.—Manufacturer of stationary and nortable steam engines, boilers and machinery of certy description—cutton mill calenders, hosfery steam preserved propeller wheels, all sires.

ENGINEERS AND MACHINISTS.

JOHN FENGUM TOWNERS MA

IIN FENSUM. Tomoto,—Ragineer, Ma-chiaist, etc. Manufacturer of hydraulic, steam and han! power passeager and guode clevators.

ENGRAYERS, ETC.

JUHN FLEMING & SON, Colborne St. Te-tualo, that — Electrolypers, suggravers on wood, designes, etc. FILES.

THOS. OF AHAM. Toronto.—Manufacturer and recutier of the and rasps.

FREDERICK BAUSCH, Cote St. Paul, Montreal.—Manufacturer of every description of hand made files and rasps.

FILE & SPRING CO., C.to St. Paul, Mon-treal.—All kinds of Sies and springs. Files recut. Solo manufacturers of bhauldings' patent concaved spring.

V. OUTRAM & SON, Dominion File Works Montreal.—Manufacturers of every descrip-tion of Sies and Passe.

FUANITURE

OSHAWA CADINKT CO., Oshawa, Ont.— Furniture Manufacturers. Toronto branch, 17 Yonge St. Montreel branch, 417 and 429 Notre Dame St.

AMRICAN BRACKET CO., Hamilton, Oat.
— Manufacturers of all kinds of fancy furniture, brackets, etc.

TEES & CO., 11 &t. Bonaventure St., Montreat.—Manufacturers of office desks and
revolving bookcases.

JAMES WRIGHT & CO., It to 17 Hermine St. Montreal—Church, bank, house, store and office fittings, art Carniture and inial floors, etc.

OLASSWARE JIAMILTON GLASSOO, Hamilton -- Manu-facturers of fint and groon glassware.

#LOVE MANUFACTURERS

W II. STORKY & SON, Acton, Oct -- Manufacturers of fine gloves and mitts in every variety and style.

HAMMERS.
HENRY H. WARREN, Cote St. Paul, Mon-treal.—Manufacturer of every description of batamers, slouges, hatchets, contractors' tools, etc. HUBS, SPOKES AND BENT GOODS.

P. W. HORE & SO., Hamilton, Ont.—Manufactu. raof hube, spekes, rims. shafts, poles, sleigh and cutter staff, etc.

P. P. DALLRY & CO., Hamilton, Ont.— Manufacturers of lake, blackings, harness oils, perfumery, etc.

INON WORKS.
C INADA SCREW On., Dundar,—Menufac-turers of iron and breas screws, bolts and rivets.

rivets. & CO , Galt.—Manufacturers of every description of wood working machin-

DOMINION BOLT CO., 139 Front St. East, Toronto - Manufacturers of every description of traits, not pressed muts, respikes, bridge, boiler and from rivets. rail e

R. IVES & CO, Montreal.—Hardware manufacturers and founders, from railing and ornamental from work a specialty. HAMILTON BRIDGE & TOOL CO., Hamilton.—Iron reliwar and highway bridges and iron working machinery.

McKECINIE & BERTRAM, Dundas.—Machine tools and wood working machinery.

THE OSHAWA MALLEABLE IRON CO., Othawa, Oat.—Manufacturers of maileable iron a sleep petent series witnesses.

OLMSTD & SON, Hamilton, Oat.—Manufacturers of freating, fences, creatings, traces and stat.—, wagen skeins, etc.

KRIFE WORLS.

THE WHITMAN & BARNES MANUPAC TURING CO., St. Catharines, Ual.—Man ufacturers of mowing and resping machine knives, sections, must plates, setting apparatus complete, spring keys and cotters MNITTING MILLS.

S. LENNARD & SONS, Dander, - Manufac-turers of piala and facey howlery. LASTS, DIES, ETC.

CHAS. CHILDS, Montreal.—Manufacturer of lunt and abos lasts, dies for rutting pole leather, upper leather, envelopes, Enzes, cults, and paper cultars.

LEATHER BELTING. DOMINION BRATA AND HOSE CO., Teronto.
—Oak tenned beiting, less leather, etc.

ROBIN & SADLER, Montreal.—Manufacterers of every description of leather belting.

ORGANS AND PIANOS WM BRLI. & CO., Guelph, Ont. - Manufac-turers to the trade

BOLTON & SMITH, 187 Mountain St., Mon-treal.—Tuning and repairing attended to. DANIEL BELL & CO., Toronta.—Manu. Between of the "Excelser" ergans. DOMINION ORGAN AND PIANO OO.
BOSTMAUTILE, Ont. — Manufacturers of
Planes and Cubinet Organs. Nee advertises
ment in a the column.

S. R. WARREN & SON, Teronto. - Manufact-ures of church organs.

DOMINION TRADE REGISTER

WM KORRIS & SON, No. 8 Adelaide by these figures

Evel Forento — White the Importers of these figures

Profession of the Control of the St. West, The Interest of the Interest of the I

BEINTZMAN & CO., 117 King St. West, Tetento, Out - Manufacturers of plans fortes

SAW MANUFACTURERS

SAW MANUFACTURERS

IL II. SMITHA CO., Ft. Catharines.—Manufacturers of all kinds of saws, plastering frowels, straw knives, etc. Kole manufacturers for the louinfulm of Canada of the celebrated "bimond's Saw."

SMURLY & DIFTRICH, that Out—Manufacturers of circular and cross-cut saws, plastering trowels, etc.

SEWING MACHINES, ETC.

SCALES.

CANADA SCALI: WORKS, Jas. 6. White & Co., Torontu-Manniacurers of all kinds of standard scales. Factory, lot Adelaide C. WILSON & SON, 45 Esplanado Street,

. WILSON & SON, 45 Esplanade Street, East, Toronto—Menafacturers of the In-proved Wilson scales. Besigners to the Government Received 29 first prices, needs and Governor General's grand disdoman. dijdoma.

HOWK &CALE CO., 65 Yongs Street, Toronto

Those in want of scales will find a larger
and better assorted stock with us than at
any other House in Uniterio.

SPICES, ETC.
R. D. VAN DE CARR & SON, Toronto —
Manufacturers and importure of cuffers,
spices, oream tartar, mustard, etc.

STEREOTYPERS, ENGRAVERS, ETC. F. DIVER & CO., Toronto.—Meetrotypers and stereotypers. Designers and cognitives on word. STOYES.

WM. CLENDINENG, Montreal -Stoves, ranges, furnaces, railway and machinery ratings. TELEPHONES.

HOLT TRIRPHONE CO., Toronto.—Telephones sold outright \$5 to \$20 per pair, wire
so, to be, per rod; works two miles.
TRIERS.

BUTTER & CHEKER TRIERS.—Robert Donaldson, Montreal, manufacturer of pump augers, butter, cheeze, flour and sugar triers.

WIRE WORKS.

L. GREENING & CO., Hamilton, Ont.— Manufacturers of wire ropes, cloth and gen-eral wire workers. eral wire workers.

MAJOR & GIBH, 646 Craig St., Montreal.—
Manufacturers and importers of wire cloth
and wire goods and dealers in railway and
haill supplies.

TIMOTHY GREENING & SONS, Dundas,
Unt.—Manufacturers of the strongest depeription of steel wire cloth, mait kiln Soors,
and general wire weavers.

WOODEN BOODS.

T. DRANDON & CO., Toronto-liave special facilities and machinery for the manufacture of all kinds of wooden articles. Correspondence solicited.

Corresponuesce solicites.

J. R. McLARBN, Jr., 83 College St., Montreal.

— Manufacture of the representation of cabinets: also, refrigurators, children's carre, waggons, sleighs, and general wooden-

WOOLLEN MANUFACTURERS. J. ROUTH & CO., Cobourg .- Woollen Manu

JOHN WARDLAW, Galt. Oat.-Manufac-turer of Scotch Angering, wheeling and kuitting yarne. WOOLS AND COTTON WARPS. WINANS & CO., Toronto. - Dealers in wools and collon warps.

PETROLEUM.

CANADIAN MARKETS.

(Petrolia Adrertiser.) The market for crude keeps steadily rising, and the goal of the producer's ambitlon, vis. \$2, may be said to have almost inery. Tubacco stands next, with \$234, arrived. During the present week sales 521, bosides \$6.671 for cigars. Oils, of

again to prevail in Petrolia. Refined remains about the same as we quoted last week, viz., 19c. Should the American market stiften the least, we expect to see 20c. freely got.

The market here for creale oil, by the earload, is from \$1.00 to \$1.95 per larrel f. a.b.

This is the price obtainable for the crude oil or warehouse receipts issued by the different Pipe Line Companies, at Petrolia Oat,, and includes the pipage charges of from Sc to To per barrel, accordng to the distance of the producers' well from the shipping tanks at the railway.

The price of American crude oil in the various producing districts of Oil City, Parker, Titusville and Bradford, by the latest quotations, is 77c to 78c per barrel in tanks at the wells for United Pipe Line criste of certificates-to this price has to be added the pipage charges of one per barrel for pumping on board the cars. When a producer has his own pipo line he obtains from 10c to 20c per larrel more for his oil than the price at the wells, but he does not get the advantage of a curtificate in case he wishes to hold his oil for a rise and get money advanced on it.

REFIXED OIL MARKET.

Petrolle. (Ont.) .. \$0 19 per tall. @ 00 dars. Turon's 019 er
Ottown 019 er
Ottown 021 er
Queller 022 er
Ilalifar and 022 er
St. dehnet 221

The above are wholesale prices per in New Zealand are American. He finds Imperial gallon at which refined oil is axes, hatchets and hamners far more

Hairel is generally from to to 2 above

The latest reflored oil quotations in New York market are as follows :-Cargo lots for export the tomain

test to the Sayland tester, aje WHITE PARTY II CALL CONTROL AND WATER TOWNS CONTROL OF THE PARTY STREET, COMPANY OF THE PARTY STREET, COMPANY OF THE PARTY MANUFACTURERS

Retined off for the New York City trade, in lots of 50 to 100 barrels 1907 thank test by the Tagliabus paroin to 1907.

Pellind oil of 100 2 factors to 1907. Reimed oil for the New York Cit-trade, in lots of 50 to 100 barrels 100 9

PAPER MARUFICTURERS

CANADA PAPER OF clamiteds, 54, 50 A

(Not. Paul St., Montreal — Manusciturers
and importers of all bin loc papers. Miths
at Winds r., Sherhooke and Pottent.

DOMINION PAPER Cu., 87 Sc. P.C. 88,
Montreal — Manusciturers of granilly, sould
and news print, cardinard middle and
coloured papers.

JOHN FISHER & SONS, Dundas — Manusfacturers of printing and wrapping papers
LINCOLN PAPER MILLS Cu., Merritton
Unt — Manusciturers of overy variety of
1 lifer, paper base and dour sacks.

WM. BARINER & BROS, theorget one.

Manusciturers of book and fine papers

Lambricating 2 in a sport part bil

Tar

[Benthed oil of Lio 2 building to it of
kind of American on training to the self of the Canadian market and is
coming into general use in the United
States.

Lambricating test, cargo tote 14; to 124c,
according to brand

Farmough use in the Cunted

States.

Lambricating 2 in a sport part bil

Tar

[Benthed oil of Lio 2 building to its of
kind of American on training test to
coming into general use in the Cunted

burning test, cargo tote 14; to 124c,
according to brand

Farmough use in the Cunted

Carried oil of Lio 2 building to
kind of American on training test to
coming into general use in the Cunted

burning test, cargo tote 14; to 124c,
according to brand

Farmough use in the Cunted

burning test, cargo tote 14; to 124c,
according to brand

Farmough use in the Cunted

Carried oil of Lio 3 burning test to
coming into general use in the Cunted

control of the Canadian market and is
coming into general use in the Cunted

burning test, cargo tote 14; to 124c,
according to brand

Farmough use in the Cunted to
coming into general use in the Cunted

Carried oil of Lio 5 to 10 t

THE BRITISH MARKET.

ARTHUB REOWN & CO'S PRINCESUM REPORT Louises, August 15th 1881.

Refined Petroleum Oll -There has W WILKE, study, b. Ont - Manufacturers been but little afteration in the market of sewing machines, apple parers, egg since our last. The slight asymne in beaters, sail from skates and bardware Amelican quotations had the effect of modelles making prices rather higher here, but the improvement was difficult to sustain, and business was flet at the end of the wock. Prime and Standard White Pennsylvanian sold at Gki to 6id. on the spot and for the mouth, Sept 6fd, and from October to February 1882 at Gid to Gid, per gollon

To-day's market cluses quiet, 61d. Naphtha .- Firm, crude 1ed decdorizof 101d

Coal Oil -Nothing doing. Turpeutine -The advance established last week has been well sustained on the whole. There was a slight relapse about the middle of the week but things soon righted themselves, and 34s. 6d. to 35s, has been the nearest quotable price for both spot and forward To-day's market closes steady. The stock at the Wharres is 10,320 barrels, and deliveries for the past week 1,402 barrols.

PETROLEL M OIL

l'rices of 8. } \V. l'etro- leum }	N. York.	le. N York, Ajo.
	Redned. C	ru. Refned. Cru.
Stock this day Landedian week.	86,890 bbl. 2,302 es. 8,622 bbl.	117,012661 1,561 es 550 bbls:
Delivered	5,324 bb1. 33 cs.	4,274,6514
	OYF OI	L
	1881.	lisau I
	Refined. C	ru. Refined. Cru.
Stock this day	921 bbi.	3,465 651
Inst week	500 bbl.	800 881

Delivered { 19 661 1 235 bb1. Above represents stacks and movements at London Public Wharves, excluding Thames Haven Wharf.

NEW ZEALAND AND UNITED BTATES TRADE

The value of goods bought in 1879 by New Zealand from the United States was New Zeeland from the United States was \$2,133,145, by New Zeeland Customs returns, showing an excess of \$1,832,-991 in the imports. The total exports of that country for 1880 were \$30,016,-011; imports, \$20,988,042. The exports were the largest since 1872, at teast, and were the surgest water assume transpand were those than \$3,000 000 in excess of 1879. The imports declined nearly \$11,000,000 from 1879, and were the smallest since 1872, at least, the returns prior te 1873 not being before us. In American goods taken by New Zealand, machinery ranks first, \$284,016 value, of which \$162,067 is for agricultural machi-

strived. Duting the present week siles ourse nearly all are kerosens, stand have been runde at \$1 90 and \$1.95, show. course nearly all are kerosens, stand in conclusively that two dollar oil is next, with \$172,618; then bandware and 16 cars and 7 locomotives. New Zealand has a very moderate tariff, the highest ad valorem duty so expres being 15 per cent, except that watches pay 25. There is a large free list Among the free articles are machinery for agricultural purposes, for horing, for making brick and tile, pressing hay and wool, mills and looms, from in most of its common forms, all materials for railroad construction, sewing machines and several kinds of musical instruments, many cerriage materials. An English-man in New Zeeland has written home to one of the newspapers in his city-Birmlogham-that the Yankees, as he calls them, probably as much to their own surprise as anybody clees, have had for several years an entire missionely of the Australian market for roughly and binding machines. The profit, he thinks, must be ample, because the makers advertiso expensively and sond experienced instructors to every farmer who purchases a machino, they are at a great dissilvantage in the sourcity of direct travelling sailing versels and in the very long vuyage, and he does not know anything in the material used which cannot be had quite as cheep in England as America, yet there the fact of American possession is As to light cart steel buy and manure forks, he a Ly the home papers that the English the ateamship companies to recover time for the regular opening, a taken can compete in all respects with the Si0,000 for Inspection fees at taken the inspector may recommend the can compete the nevertheless, all the forks Uarden for June and July playment of one or two more factories in the control of the control

THE MONEY MARKET. TORONTO SPOCK TO PORT

DANK~	Ė	Capital aub	Colliat	l Best	Digite.	- ոպ ()	,,
 	1 3	rented	1 21-1 di	a sec no	V ES-ULA	3, [*]	''s .
Conclina Brok of Commerce	-	1,330 (2)1	i samun	*	·		_ [
Loosendated	100	4 2000 3000	2100 11	1.600,000	`•`	161	٠.
Done con Hank Federal Bank	1.0		10.00	SSam	i a	١.	- i • •
listalition.	ju	Luuran	34.10	231111	1 5	1 10	1.1
Imperial Bank of Capala			46,000	leutern			!!
Stojeon a flang	. he] 578.30 2,000.00		#35 (Cu	1 7		40
M differi	1 20	1 200,000	11 922 40	արդու Առանու	1 3	• •	! !
Ontario liank Standard	1 4	1.881/881	30.00	liffi inn.	1 1	1.	١.
Toronto.	1,	2.000,000	1,54 34] ;	1 10	1
	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,000,000	AN HUO		1 4,	4 1
fora vad ntatros, constribs	·}				ĺ		
Andle Canadian Mertange Co.	100		331.411	an an ,	í .		
Building and Loan Area lation Canada Janded Credit Co	2	1,40,000	1 11214	•	1 1	1.11	
anada l'ormanent la & 4, ('o	1 (4)		200,00	110(11)	41		ļ
and lead the large and lean to	6	482 <i>5</i> (w)	277.7un	20 (XI) 34,461	. 0	i	';
Aminion Navings & Inva'l H's Farmers' Loan and Pavings t'o Freshold Loan and Navings t'o	(a) (t)		677,137	# Cu	1 :	10.	, i
reshold last and Navings to	1.0	100 00	677,315 647,049	#1 (10) (1,415 213,411	i	10	i.
antitue l'en ident & loan B'y	1:0	1,000,00	AII,OU	120,00	1 5	- 1	11.5
lamiton Provident & Loan B'y luron & Frie Bavings & L. B'y, luperial Bavings & Invents Co.	N)	1,00,000	941.140	AU,IID	1 1	1 14	1.4
ondon & Cad in la & Agency Co	(1)	4 (10) (10)	811,600	(II),(IÚ	1 3	14	j 1
landon fadn (himpeny landtola & N.W. I. & Inv't (b	w	(454,700) 454,700	CONTROL CONTROL	141.00	6	16.	1.
lactions (N.W. I. & Invito	١ا			20,681	1	i -	$\pm a$
ational investment Co	100	1.4.0,000	2.2.000	11 40	1		1.4
"ularto has inga & (avam't 8'v.)	<u>س</u>	1,000,000	841,200	luk,nuo) s*	1	!!
contre a	. 1		- 1		••	ı	دا ا
teal Estate Lonn & Librite's Co nion Loan and Savings Co	50	****			3}	110	- J ii
estern Canada Loan & S Co	60	100 (00) 100 (00), 1	44,312	105,000	5	1 13	1,,
IMBURANCE, &c.	-	.,,	1,000,000	350,000	5	1	i.a
ľ	. 1	ł	1			1	1
Iritish America	<u>(.)</u>	500,000	ഗോ,റോ	645,385	8	1	
Yestern Assurance	400	1,000,000	400,000	Y 22,000	7	169	1
ANTICLE PROPERTY OF THE ASSESSMENT OF THE PARTY OF THE PA	ioo	(100,000)	125,000j	36,001	71	•11	ندا
onsumers' tipe	` 60	600,000 711,700	(00,00	- 1	Ş.	1	41
Guitreal Telegraph	40	(0.111.	711,701		5 2)	163	10
lobe l'rinting Co	•"	2,000,000	2,000,000	1] "	1.
	!_		: !	J	•	ļΨω	•
	1	ITTERYAT	- 			-	
DEBENTURES, &c		PAYABLE.	l Vi	FRE PAY	ABLP	1	
			 ' .			_	1
ominion Corm't stock, 5 per et	301	tirdk d	rad Ottawi	Monte	1		1
	31	st Oct	To	runto	esi, En	4 1071	1
ownship " 8 "	Į	•	• [. 101)	1 10
ty of Toronto 6 "	Ī	•	ı				'i∢
pronto, il. & U Londs, fi " pronto and Nipissing bords	Jen	uers and J	uls Innatur	(Eng), A	Towns	ų (i)	1 111
Monto mun Wibitain BODIS	3421	usryaudJ	Bly Forout	٥		1	
	<u></u>		_				I
N	17.0	REAL ST	ock rep	ORT			
• •	5 6	apital		la	1		
NAME.	• `	anp.	្តេសៅ _ន	Rest, DI	ridend	Closing	Pne
	- 1 -	1					

iwid-up. Rest. Jast June 1. scribed. British North America Canadine Heak of Com-Pontinion Bask Du Peuple Karten Townships, Ed Kachange Hank Jederal Hank Jamilton Joshelega Imperial Bank Jacques Cartler Maritime Merchanta B, of Cul'a Montreal Valientale \$ 4.415,606 6,000,000 970,250 1,000,000 1,000,000 1,000,000 745,100 Sellen. Layer. .1ลั้ง.00ว 100 100 335 000 710 000 200 000 200 000 200 000 93 3) 15.15.15.15.00 149 147 12 ; 100 100 3 996,000 670,000 599,400 5,701,000 1,591,500 11,599,500 100 25 100,000 2) lus' 471,000 100,000 8,000,000 8,000,000 Alison's Hank
Montreal
Valionale
Ontario Hank x d
Quebee Hank
Standard
Teronto x d
Hinos Hank
Ville Marie
Canada Cotton Company
Domision Telegraph Co.
Montreal Telegraph Co.
Montreal City Has Company
Montreal City Has Company
Montreal Link Mortgage Sy
Richelieu & Ont Nav. Co.
Intercolonial Coal Company
Quebee Fire Association Co.
Silver Plume Company
Hoyal Canadian In. Co.
Hoyal Canadia In. Co.
Hoyal Canadian In. Co.
Hoyal Canadian In. Co.
Montreal Fire Association Co.
Montreal Fig. S. p.a. bonds.
Montreal Fig. S. p.a. bonds.
Montreal Building Association
Do. Waterwerks de.
Montreal Building Association
Do. Waterwerks de.
Montreal Building Association
London Cotton Company
Hundas Cotton Company
Canada Castral Hende
Graphic Stock
Jiel Telephone Company
Canada Castral Hende
Graphic Stock 103 2015 2,000,000 2,997,000 2,000,000 2,000,000 1,000,000 2,000,000 800,000 11 1,992,990 919,370 18844889 711,700 711,700 2,000,000 2,000,000 600,000 1,000,000 1,000,000 2) 4 6 5 3} 75,000 à 5 66) 82 310 8 Į¢. 165 165 105 IW, 80 121]21 20]21 113 123 100 that saws, carpenters' tools, and door brow at Thorold was finished. To-day

locks are crowding in from America, so work was to have been commenced on he thinks it time. Birmingham woke up the gates of lock 24, and so soon as the A resident of Birmingham, in reply to are placed in position the job of fixer. frenmongery, with \$171,752; then rails this, admits it to be an old story that, those in lock 25 will be begue. Thus Americans control the colenial trade in the last lock on the new canal, the samhay forks, boes, shovels, "and a few of mit level having been transferred by the the lighter agricultural machines, but makes light of American competition in hardware in general, averring that it will north-extending the "long level" on take a generation for American makers to obtain such knowledge of English hardware as to seriously compete in quality, and that even then they will be mable to compete in cost. But this does not fit in well with the reported fects, and the New Zealand writer is probably the nearer right. It is cortain that especial attention is given by Americans to Australia as an export field, and that trade with the colonies is growing well for a recent ovidence of this the manager of the United States department in the late Melbourne exhibition sends a list of American awards, and seys that in proportion to the number of exhibitors a larger number of awards was received than in any previous exhibitton, also, that American exhibitors have sold more goods and received more orders than those of any other nation. in proportion to their number present a very large part of the exhibits being po- which 300 are required are being and cultarly adapted to Australian wants New York Times

The immigration commissioners at withstanding their superior and exten ow York have commenced suit against sive swillies, to turn out the wheels to

Imperial gallon at which refined oil is axes, hatchets and hammors far more work of succepting the galoners lock 23, sold by the car load; the price per single salable if of American make, and adds New Welland Cacal, on the mountain eptibg.

construction of that national work from two and a half to three miles farther which there will be none but guard locks from 141 to 16 or 17 miles. It is intended if the work is completed in time to send the first vessel through the new canal next week. This will be the Enter prim, which was transformed into a burr by the Mosers, Mule Brothers of Port Dalbousic, out of the hull and frame of the old steniner Enterprise, built and run by the Wellend Bailway Company for Year, and, after being concerned, sold to tho above firm The Enterprise is very nearly, if not altogether, the the new locks, and if loaded it is expect ted that her ramage through will giv the new canal a very felr trud, and will make apparent any defects, it melshould exist. As the turbine sheet (Mr. Townsend's patent) cannot be apfilled the lock gates will have to be oprarel and closed by means of the old fashioned winches The whire!s by Measure J. H. Killer & Co. of this city, and Mr Wilson, of Hundae but as !! feared that they will not be able not

time for the regular opening, it is possible playment of one or two more factores in their production, no as to fulls test the new equal title fall, and have it most for the opening of narigation acts

THE DRY GOODS TRADE.

NEW YORK ADVICES in A. Marcantile Journal

Il werk under texten lein dereit beit 11 bille tridness fit alt departmente of L'action trade in domestie dry gende to itsilitie of the country, especially the nuthern and western sections, are and represented by buyers on the must and their eater tions Indicate their up aton and ability to operate life rate The role a steady and at the sequest " has of staples and department out teth cotton and woollen. A farge ud actisfactors distribution has been mile to leached and ambileached entiring es foods, pilots, ginghams hosiers of underwear, akitta, etc., etc. Other parmer to have sympathiand in the passed condition of trade, including selett tomes and whole sale cluthiers, shere in fancy goods, notions, etc. Buch so a tulo are very firmly mainsaid and some four destings have been and in quotations which will be found to in other columns. The cautions hager will do well to noto carefully the pading of value as indicated by the Appendix in our price fists from wek to week. The schage movement us ten of moderat proportions, many whate tupers having completed their at purchases for the season, but equent orders have been received by nul and telegraph for duplicate casortwats showing an active distribution by oters in the interior. Stocks of all steple goods in the lands of manu stures and agents are generally of or moderate proportions, and with the age current and prospective domand ture would seem to be a sound losis for the strong and buoyant tone now ruling the domestic dry goods market.

The market for fereign dry goods hows continued improvement in the densial from first hands Staple goods as moving with more freedom, but injers as a rule, are not yet inclined to tivid present requirements to any etter although values have generally ep and at very moderate figures and the have a firm tone with an upward t admity in many instances. Specialties and novelties, both in dress and iancy gads, show a good degree of activity nd the richest and most striking effects seem to be most popular. In ru goods there is rather more inquiry s tink cashmeres, but coloured cash ... res still role quiet. Bapplies are not resure and prices no very firm, though unchanged, notwithstanding a slight advance in these goods in the foreign market. Fancy dress fabrics meot with a liberal request, and plaids, stripes sombre effects and mixtures mainma their popularity. The better grades of black silks are more active and prices rule firm and higher than the closing sotations of last season Stocks of good quality black silks are only moderit, but inferior grades are in ample sup-ly Coloured silks move slowly, but the most desirable shades and qualities lare a fair inquiry. Specialties and indies in silks are in demand and a enaces of fair proportions is reported in trocades, damas ece, eatin de Lyon and cher satin faced goods. Velvets, both sik and cotton, also plushes, move quite feely as steady prices. White goods reand lace goods are taken in assorted lots aggregate. Hamburg edgings rale quiet but steady. Linen goods are without special activity, but housekeeping varities are in some request. Fornga woollens move rather slowly, but ra completed

The cotton goods market has lost ed a tothing in strength or buoyancy, especially in the jobbing departments of trade At first hands the new domand is rather on ugent, the immediate wants of a majority of the larger jobbers having ern supplied, but the aggregate of small selections of fabrics needed for the renewal of assoriments awells the volme of business to a very satisfactory ichl Agents continue to make stoady deliveries in filling back intere and atocks of all desirable fabthe are kept at a low point in the hands l'rices rule very firm, and ernits have made further indvances in vertain lines of goods. The jobbers tofort an active trade during the past "rik, and in addition to satisfactory distribution of assorted lots many of the arrer bouses have completed a packago business of considerable volume. There has been a steady movement of coloured stens in filling back orders, and dening ducks, stripes, clonks, ticks, obesiete ornaburga, etc., liaro also been disinstitut quite freely in small assortments on new orders. Prices rule firm, with tirche under gond control

The reports of the week's transactions woollen grods are much the same as he several previous fastics. Transaclone have been largely on previous orders, while desirable makes of fancy goods are in a supply behind demand. The new demand for mens wear woolhas is but moderate, though some large sues have been made in less desirable America Prospects do not warrant the hope for large profits in the fature, but capital not boing involved in large Wake of goods with manufacturors of erete, small margins in an active marto all, and the feeling is artifactory, and its artifactory, and its artifactory, and its artifactory, and its artifactory, and its artifactory, and its artifactory, and its artifactory, and its artifactory, artifactory are fine its artifactory, and its artifactory are fine its artifactory, and its artifactory are fine its artifactory are fine its artifactory are fine its artifactory. The summer is a proper or

to be country wants officer with bottom mutton. The country wants officer with bottom of first hints. Prices breefs than Colawolds or Lefterters blankets is light, sup, has are also light will improve the quality of both stesh and sold to rise in many makes. Showleans fairly acress it from prices Skirts nie in stends demard, trimmed and embossed servision most attention Carpets are moving to ly en presions orders form a ents finnes bupple to light and price care from

Finite liere anted merce doth at first and second hapds during the week under review Buyers have been unusually critical in their mictions, but have taken liberally of such styles and qualltion an satisfied their tastes. A large and varied ancorract of new styles and effects are displayed, some of which are very attractive and most with a quick market For many of the most desirable effects agente have already received orders for dupiteate assortments. There is a good demand for leading makes of shirtings Robes, patch work prints, trimming prints, furniture cretonnes, Turkey reds, indigo blues, etc., etc. have been taken to a considerable negregate at well sustained prices. In wide print there has been a fairly netire movement of desirable atvice of foulards and cretomics both at first and second hands. Prices are low and are firmly maintained. Gioghains continue in briek dematid, but the package movement has been limited on account of the meager supplies of leading makes of dress styles. Jobbers are making an active distribu-tion of these fairies, and agents, though making deliveries as fast as possible, are unable to keep pace with the demand. The jubbing trade report an active demand for all classes of prints and an aggregate business has been done in puckage and asserted lute.

The cotton market is at a standstill. at least to far as any important changes in prices are concerned. There have been the usual slight daily fluctuations in future options, but the figures leave of tut little different from last week. Prices for spot lots are almost identical with those we last quoted. Foreign advices report rather a dult market, while reports from the South, on the whole, are not discouraging as to the extent of Some sections, however, complain bitterly of the effect of the sum-

mer a drouth The wool market continues very dull nearly the whole turings belog sinfined to orders covering the immedia e-waute of manufacturers. Buyers are not inclined to go beyond there, while sellers, on the other hand, do not press them for negotiations. Were they to do thus, the cost price of wool in many cases would not be realized. Holders, however, retain their confidence that a few weeks will change the current of the market, and they will come out even, or more Stocks are acknowledged to be large, but a heavy demand is anticipated with the advent of more active days in the goods market. Foreign advices report a quiet market abroad. Nominally prices with us have not changed since our last, but orncessions would have to be made to effect any considerable sales

CANADIAN WOOL— AN IMPORTANT MATTER

bicks for men's wear. Low grade goods attention of our farmers. The subject is one of great importance, and the considering dry goods is fairly active; a tought of entire the consideration of entire theigh dis goods is fairly active; a erations sot out by our contemporary towards of satisfactory projections has should feed farmers to change their breed of sheep in the direction indicat-

> Twenty thousand nounds of Capads wood, which cost me twenty-nine cents, I offered this week for twenty-four, and could not even get that 'Such is the story of a country merchant a few days ago. The statement is made that 750, goults of Canadian long stapled wool is at the present moment on hand, unsalable We hear of cases in which single hold ers have lots of from 10,000 to 40,000 pounds on hand, bought at high prices. and offered in vain at a less from ele to ten cents por pound. American mills bave had Canadian wool in store for a year, unable to make use of it. What is

> the remedy for this? Farmers and brooders in Canada must change the character of the woul they grow, or make up their minds to sell if as a low prese, if indeed, they can sell it at all We have already shown that the bulk of our woel is tit only for making worsteds, coarse yarns, bed blankets, But worsted goods, such as alpacas, are largely out of fashion, and the wool that suits for making them is no longer in request at home or abroad. Resides, as a large wool desicr tells us. Most of the domestic woel offering now is too coerse even for blankets or ctoffes. The result is that our manufacturers have to buy mainly English, Scotch, Cape, Australian, and other tiner wools, of which to make Canadian woollen goods. And for this foreign wool 30 to 40 cents is paid, while 22 to 24 cents is the ruling price for our native combing. If, theretore, Canadians would grow the klist of wood that Canadian mills want, there would be no need to go to Europe, Africa and Asia for it, but the Canadian farmer would find a ready market at a

and fleece, and thus put money in the Armors' pockets. To repeat what we have already stated upon the authority of a grower, three Southdown sheep can be ted and kept in proper condition at the same expense ter for and room as two Cotavolds.

A very important confirmation of the lows we have arged to tound in the conclusions reached by Prof Brown, of the Model Farm at Unelph, which we give

in life own words :-" In the fattening of weibers, to finish as alientlings, the Cotswolland Letiester grades can be maile up to 200, the Oxford flown to 180 pounds, and the bouthdown (grades) 160 younds each (live weight) "Combining wool and flesh value, the Bouthdown grades give the highest returns-as much as double that of the Cotestold grado and 15 per cent over that of the Letester grade, also slightly In advance of the Oxford Hown grade !

The Professor, in his miranio report of the Untario experimental tarm, considera it a point subject to an dispute that the grest moiny Cotswold sheep will cut one-half more than the hardy, compact 3 athiown ' Having tested during sive S athdown ' past years the crosses resulting from pure bred Lelcoster, Cotewold, Oxford Down and Southdown rame upon ordinary Canadian over at the farm, all being fal alike, the following conclusions are renched as to the vield of each sort of animal in ficels and thece -

CUST 1 171.0. Wroll. Carcase, \$2 52 \$1 \$0 2 21 9 81 2 24 10 62 2 40 10 20 Cotavold grado 50 0)
Extrestor do x 10
Usfort Howa grado 7 4)
Southdown do ... U W Showing that where the Cotswold and Loicester show a profit of \$3 17 to \$4.04 respectively, the Oxford Hown yields \$6.02 profit and the Southdown Sc co

There is something else in the annual report of the Model Farm which should commend itself to our farmers. It is this. In this country the market value of store cattle can be increased 26 per cent, during six months by good feeding This statement is founded upon the results of actual experiment. A like result in to be expected in the case of slicep. And even for those farmers who have only Cotswold and Letcesters, it will pay to give attention to There are too many Canadian farms on which," says a communication just re-ceived, "the daily custom in the depth of winter is to fork out upon the soow some pea straw for the oattle and shoep to nibble. The animals are not adequately sheltered nor properly fed; how then can they yield succulent best or mut-Wo suggest, further, that in the ton ?" case of slicep, it is quite possible that the exposure to the rigours of a Canadian winter must tend to make their wool course as well as long. Hence to improve the flesh as well as the wool shelter and better food is needed. Turnips and carrots might be fed them, and a covered shelter afforded. There are many farmers, we know, who do not need these suggestions, having long ago anticipated them, but there are numbers who would be advantaged by greater cate of their cattle.

ENAMELLED CLOTH

As a substitute for leather, enamelled strength is not so important as a good appearance. In the covering of carriage tops, the upholstering of familiare, the covering of trunks and travelling bags, a great quantity is used, and it is also cinployed in garments, coverings, etc., as a protection from water. Enamelled cloth originated in America, and was first made at Newark, N.J., in 1849. The detalls of its manufacture are very simple and can soon to told. The foundation of the article is cotton cloth of the best quality, and generally made expressly for this purpose. The cloth is taken from a tale and wound upon a large cylinder preparatory to receiving its first coat. It is then passed botween heavy fron rollers, from the top one of which it receives its first coating of composition In many places the covering is spread by a knife nuder which the web passes The composition is made of lineout off, lampblack, resin, and a few other ingredients which are belied together until they reach the consistency of incited tar. From between the cylinders it is carried to a drying frame made in the shape of a reel, and subjected to a high temperature in the drying reem, which is heated generally by steam pipes. After the drying process, it is given to workmon who make all the rough places smooth by rubbing with numico stone and water. The cloth is then passed through the same operation as before, rolling, drying and rubbing, and this is repeated from three to five times, or until the required thickness has been laid on. After the last serubbing down, the fabric is taken to another department, thoroughly varnished, and again passed through the

makes of they a some examples lid a define some our knowers realize this step yet remains to be taken. The clothe should or product on. Not orders I am and act upon it the some they will be passed between I cary relies which alread or profit of a Nor orders I one to ever, are the confit of the co and min and stocks in the name. From press than Colambide or Lelecters other article that can be mendoined and min and stocks will give better multon and mer and beary material test fill the cloth with or flatch is an install has been higher priced wool, or a cross of the name of the result is an enamel that atomic action of the color of the result is an enamel that atomic action of the result is an enamel that atomic action of the result is an enamel that atomic action of the result is an enamel that other article that can be mentioned steady at from price. New teen well tive sheep with one or other of these will crack during the cold weather of winter, or, in their endeavour to tern out a cloth that will stand a low temperature without a nicking, they fill the mecchant a shelves with insterial that will be atticky in summer. The poor quality is used in the cheap trunk and beg trude, but none but the lest will do for the outdde wear that comes upon carriage tops

RUBBIR SHOLS

Twelve thousand pairs of subber shoes would make a very large pile, and be worth a deal of money, and jet it repre-sents no more than what was the daily product of the Ikiston Rubber Shoo Company, whose works were recently jurifully destroyed by fire in Maldon The company employs one-tenth of the population of the city in which its works are located, and it was in contemplation to increase the enpecity_so that 20,000 could be turned out But the fire delayed all such plans and reduced the number to 8,000 pairs per diem Workinen are now engaged in rebuilding the shope, and entarged facil-ities will be provided. The operation of making rubber shoes is very interesting After receiving the crude rul ber from the importer, the first step is to cleante To facilitate this process, the rubber, which comes in pieces resembling in size and shape a soldler's cauteen, is cut into thin slices by means of a large circular knife, revolving with great speed and kept constantly wet. The slices are further reduced in size by another mathine, resembling somewhat a hay cutter, and, yet again, a machino cuta the rubber into minute particles, and at the sumo timo removes from it all dirt and other foreign substances that may have got into the material by accident, or been put in by dishonest merchants to increase the weight. Much of the fine finish of the show depends upon care at this stage, for if any guit remains it will show itself in the completed article. The small particles of rubber, all clean, are then shovelled into a rolling machine, which transforms them into rough sheets. The sheets are then thoroughly dited in the drying room, a process which takes a very long time, often three months. It is an important point thoroughly to extract the moisture from the gum, for it it is made up into shoes before it is sufficiently dry the watery perticles will expand under the heat of vulcanization and cause blisters After the gum is thoroughly dry it is

carried into the grinding room and fed

into machines called grinders, where,

passing between heavy fron rolls, heated

with steam, it is softened so as to permit

of the admixture of the vulcanising and

colouring material. The call for low priced goods has led to extensive cheapming, by which loss expensive material than rubber is added to lessen the cost Coal tar, lampblack and other cheap and bulky articles are thus sometimes The gum is then run into long sheets between the large rollers of a luge ma-These long sheets are cut into convenient lengths and taken to the cutting tables. The cutting process is not unlike that of other shoes. Men with sharp knives, which are whet to make them cut easily, cut out the soles and uppers by means of patterns. The lasting comes next. Monawhile in another department the limings, whether cloth is now largely used where lightness of purple stocking net to shoes, or and pliableness are desirable. Having of woollen fleecy cloth for "arctice, the appearance of leather, and nearly, if or of heavy fo't for boots, are and hydrochloric scills respectively, and not quite, its durability, it is used where coated on one side with tubber were afterwards carefully examined with by pessing a batch of gum in comwith the cloth between hoated steel rolls in another calcular, and, after being cut into various sizes, many thicknesses at once, with dies in a drop press, are distributed to those who make up the boots and shoes. After affixing various strengthening pieces of cloth stife fening, etc., the rubber upper is care-fully laid on and sticks fast to the rubter on the cloth with a light pressure and smoothing movement of the hand. No negging nor sawing is required. The edges are then trimmed, the sole is put on and rolled down firmly, so as to adhere closely in every part. The shoes are now collected and carned to the varnish roum, where a coat of elastic varnish is quickly applied and the shoe is hung in the heater. This varnish, besides imparting the fastre finish, protects the rubber from being injured by the intense heat of vulcanization, and further protects the slices when in use from the effects of the atmosphere. It is found that goods which are made up of a dull finish do not last as long as the varnished articles. The heater is a large fire proof room, hosted by means of a large number of steam pipes. In the evening, when the heater is full of goods, the doors are closed, the steam turned on and the baking begins. The heat is gradually run up to 300 9, under the supervision of experienced hands, who remain all night, carefully watching the progress of the baking, as indicated by thermometers hung up inside, but visible and the mischlef is done to the stone by through small windows in the wall of the heater. Too much heat renders the very weak acid indeed, that which was and again passed through the subber brittle and rotten, and not quite used for testing the stone being many it now appears as a piece of enough heat detains the sulphur in the thousand times stronger. On the other

sulphureus goods are really better to wear them those commonly put forth, but appearance goes a great renders the shows unfit for sale. The tirate heet of the silcaniaing process is to make the goods soft, and in this condition the subber runs together into one homogeneous mass, and finally, when a higher point is reached, it hardens again After remaining in the heater for ten hours the goods are taken out, removed from the lasts, imspected and packed for market there are those who can well semousles when there were no subles shoes, and still a preater number who can recall the again shoes that were worn years ago, and the contrast between the shapeless and heavy articles of the tient days of subber shoes and the tastejul shees of to-day is very marked. There shoes were made by the Indiana or, the banks of the Amazon, and were slimply formed on wood lasts, coated by repeated dippings and smokings. They were that imported in 1820, and for many years the imports reached the large number of 500,000 pairs per su-num. The manufacture of these goods was tried in America, and hereo sums were expended for machinery and exper-Imenting, but it was found that the rabber would not stand the atmosphere, and manufacturers found their goods resolving themselves into a sort of treacle weather. Charles Goodyear solved the problem by his celebrated discovery and made rubber the important article that it now is

THE MIGHANICS CAPITAL

The incidente is cometimes looked pon as a man without capital. times ho looks upon himself in this light. This is all a mistake The man who earns \$1,000 a year has not only capital, but, in these times of low interest, he has considerable capital.

The manufacturer and the merchant aim to increase their capital by a judicious bandling of present means. The mechanic does or should try to increase his in the same way. Knowledge to the mechanic is capital, because it enables him to command more for his services If he powerse simply the skill of the workman, lie can make that skill carn him a certain sum per your, which sum is the exponent of the capital he has invested in his business. If, to the skill of the workman he adds the knowledge of the man who thinks beyond present purposes, he carns more, or, in other words, he increases his capital. young machinist, for instance, who learns machine drawing is morally certain at some time to find use for it where it will stand exactly to him as the money of the enpitalist stands to its possessor; although this is hardly a fair statement, because he will at once find use for it. Whom the man who carned \$1,000 a year by virtue of his skill as a werkman adda such a knowledge of his business as to earn \$2,000, he has an assuredly doubled life capital as the man who has twice as much money to luvest in his business as be formerly had

It is cornectly advised that every ap prentice to the machine business shall do a little calculation for himself on this subject, always remembering that capital which is the result of skill and knowledge is seldom at a discount and never ost. It is just at this time in their lives when liablts are formed that to a great extent determine the working capital with which they are to go through 11to .- American Machiner.

W Mattlen Williams, in a paper communicated to the Building and Engineer. ing Times describes some experiments which he made some time since to test the dumbility of stone in an atmosphere more or less intected with sulphurloacid. Some pieces of stone were immersed in moderately strong solutions of sulphurlo reference to any a tien occuring. At the same time the critiling pressure of samples in their natural state was tested, and similer pioces, after being submitted to the acide, were likewise texted. In cases where there were no evidences of internal disintegration after several days' immersion it was inferred that the stone would stand the acid vapours of the Birmingham atmosphere. Subsequent practical tosts proved these conclusions to be correct. Experiments of this kind indicated that the worst kind of material for expesure to acid atmosphere is randstone, the particles of which are held together by limestone or are otherwise anrrounded by or intermingical with limestone On the other other hand the best ordinary material for resisting acid atmosphers is a puro sandstone quito free from lime Compact sand. stone, such as good homogeneous marble, stands fairly well, although even it is slowly corroded. The corresion, however, in this case is purely superficial and tolerably uniform. It is a very slow washing away of the surface without any disintegration such as occurs where a small quantity of limestone acts as binding material to hold together a large quantity of silicious or sandy material and where the agglemeration is perces and the stone so laid that a downward infiltration can take place. It must be remembered that although the acid originally exists as vapour in tho air it is taken up by the felling rain this aculified water. This, of course, in

THE METAL TRADE.

THE BRITISH MARKETS

Cr. f American Manufacturer.)

1-x1 -It is a testistactory that the returns touching the business during July in the raw from of Cleveland show a fall- tioned: Scotland, France and Germany ide oil, with a continued augmentation In the stocks. An increase of 5 380 tone in stral, upon the month which there chong at a fluid when no increase naexpected to the bulk of the people it is borne in mind that a calculation leased upon the past ten years shown an average decrease in July of 8,000 tons.

High class mw from also is weaker Times have greatly changed with the makers of the old fashioned argillaceous ply makers. With three the competiloke. Of the societ competition of these one against it other all the time that preferredly a compact to uphold prices. exists between it em and binted in my let-a competition, let me add, which has enabled some finished fron makers of my acquaintance to buy at £3 is 3d per ten fron which is held by another for £3 5s, and held under the delusion that the other firm was refusing to sell at under that ligher figure. At no more money then the lower figure splendld Staffordshite all mine pige have in the tonishire market will be not a little astoni bed when it learns, as is the fact, that Earl Duillers "Buffery" fron has been sold at £3 is 3d per ton. The designation is taken from the locality in which the furnaces are erected. Reputable in a marked degree is the fron yielded by those furnaces, in which the material used is splendlid local stone, and the fuel is the yield of the pure ten yard soams for which lifs lordebip's best col ferlos are famous. The market price of this iron should be 23 is 6d. That indeed is supposed to be the price which would have to be given; though it may be conceded that an old enstoner may be favoured by the taking off of is 3d or 2. Gil in some special sales. To my know-ledge, however, his leddships chief agent lat just made a sile of 100 tons at the low price I have named—just the price, it will be seen, at which sales are being tande very quietly of bematites of an unimpreschable forge quality, delivered at curtomers' works in central England. Nevertheleas the British iron trade is improving

The demand for rolled fron and steel abows at at-ment only in those passing instances in which there are workmon's strikes. The chief of these now on relate to the shipbuilding trade on the Wear, where some workings in the inferior departments are holding out for better terms than the employers are prepared to concede them. I'rloss of finished from are remarkably strong compared with the prices of raw material; though it will be hard for them to uphold present rates directly that the demand subsides oven alightly. The reasonring fact argues the Times, in its weekly review of the iron trade, is that the demand for dulshed from continues to improve. And it sees no resson to regret outside that range of the trader immediately affected that the preduction of pig fron is in ex-cess of consumption. Reasonably enough on the general economy of the question it argues that this excess of production means so much more acquired wealth possessed by the nation. Considering all circumstances concludes the witer, and the steady progress of hand-tomouth trade during the last two years, "the country will do even better the next year or two." If the United States will only continue to buy no less freely from us in the next than in the past two years this forecast will be realised. Meanwhile raw iron prices in Scotland are being weakened by the action of speculators, who, believing that shipbuilding districts. Most of the leadrha bellev the recent proposition for a specific de-crease in production would be adopted ly the masters, bought somewhat heavily for the rise which they hoped would follow. That proposal having fallen through they are now anxious to sell out again. And the same class of thing is operating also to the disadvantage of the Cleveland prices, where speculators were equally cager as those in Scotland. Prices in the Glasgow Warrant Market yesterday (Friday) showed a slight de-cline upon those which opened the week, business bring done in the afternoon at 40s, 41d, to 46s, 5d, cash, and to 48s, 6d. and 46s. 61d, one month. The export and home demand in Scotland is entitled to be characterised as decidedly good, yet it is lusufficient to cope with the pro-The Continental demand keeps pretty wall, and on United States account -omo tolerable sales are also being made. Yet last week's abluments of 9258 tuns were a decrease on the preceding week of \$120 tons. It is with no satisfaction that the market learns that of the eight farneces which I reported a week or two and were temporarily blown out for to pairs seven have this week been relight-Works. Thus the number of ternaces blowing is again misch to 119.

Regarding the Cleveland trade there is not much that need be added to that which I have said in my opening. The week's business has been vary quiet, and yesterday's prices in Middlesbor-ough fell to 36s 8d for No. 3. The most serious feature of the export trade is the electromed business doing in Scotland.

descense upon the presions month of over 15,000 tons. Comparing the comperfects, Hussian demands show a falling off of more than one-half, but France increwed her buying from 6000 to 10400 tons, and Belgium from 1700 to 5 866 be quantity taken by Germany during Wolverhampton, Saturday. August 6, July was within 200 tons of that bought by France. The test toroign contonsers of Cleveland are in the order men-

Heavy quantities of plates continue to be rolled for the shipbulders. These people have a very busy season before returns show to of itself unsatisfactory them, as the netirity in ship building now presented has perhaps bever been expected by the bulk of the people surpassed. The bar trade is very steady concerned, but it is especially so when at about £5 12s 6d for ten. Ancles are 45 los to 45 les 6d and slip plates 40, then 24 per cent l'indified hars are rather qui ternt 2 1 16s net. The total amount of manufactured from and steel sold to foreigners during last month amounted to 14,188 tons. India was the largest customer. taking 7,400 tons; tion of the hematite from firms to new no next stands Spain with 2,000 tons, then Australia with 1,850 tons, and so on

The improvement in the Bossemer steel trade of blieffield noted a fortnight ago is maintained, and makers are in hopes of having more remunerative employment in that department. Steel rails cannot be quoted any higher : recent contracts have been rather smaller than those placed a fortnight or three weeks ago, but the prices obtained have not been more profitable. bieel plates for marino baller making are selling freely on a basis of £18 per ton, and numerous mills engaged in this class of trade are running actively. Hest cast steel is selling freely, for common qualities are in much part neglected owing to the competition of Bessemer billets of guaranteed tem-In the reliway spring and aslo Der. wado there is slightly more dulng. The armour plate works continue quite all It is possible, however, that there Lu.y.

Although the file trade sea whole le still in an unsatisfactry position, yet there is loss inactivity to be seen than there was a few months ago. Some goal orders have come to hard from the United States for special classes of goods. They are the first of any moment that have been received for some time, and that they have come is in the opinion of some of the Sheffield houses partly attributable to the test that the American makers has put up their prices. It is also noticeable that the orders are for hand cut fles. With the French and other foreign markets an improving trade is being done.

There is a well austained demand for all classes of steel implements used in the garden and the field, and some houses are still well supplied with orders. There is a more active dumand from certaln markets for the better descriptions of cutlery. The reser trade has never been known to be so brisk as now, and houses that had stocks, the accumula-tion of years have cleared them out, and are now unable to execute erders as fast as they are wanted.

It South Staffordshire the business current in manufactured from continues fairly active, and the tone of the market is firm, more particularly for sheets, hoops and galvanised iron. The most potent factor of the improvemen, which has lately taken place is the active demand from Australia, New Zonland, India, and various Bouth American markets for galvanised corrugated sheets. Plain sheets are sharing to some extent in the improvement; and for iron of various descriptions there is a growing local demand for manufacturing purtube, girder, cerriage fromwork, and heavy Iron foundry branches.

In Birmingham home orders, which are specially good just now from Scotland and some of the west coast watering places, affect chiefly furnishing frommongery; and agricultural tools and ing railway companies are liberal customers at present for railway stores, sheddiag, lamps, auts, solts and spikes; and onbie contracts contribute to the activity of some of our least wheeverks at which high qualities of wire are produced. The great strike in the wrought nell trade continues. There is a considerable business stirring in cultivating and edge teols for the Indian and South American markets, but the prices necessitated by competition are very unsatisfactory, and it is only makers of leading reputation who can command fairly remunerative terms. In the metallic bedstead branch there is a little more dolug, both for home and export. In the latter department the Spanish West Indies, the Cape, and Australia are conspicuous. Machin-ery is selling freely for export, the demand being principally for light driving engines, pumping and a mping machin-ery, hydraulic apparatus, crabs, winches Australia, India, Russia, anil the Levent are taking large quantities of machinery just now.

The Indents both from New Zyaland and Australia continue on a tolerably large scale, more particularly for heavy i-six of them at the Carteborrie Iron goods. Trule with the South African culonies appears to have sustained a check since the conclusion of the Hearto and Transvaal wars; but buelfiess prespecia there are considered satisfi and in certain lines such as tools, imple ments, carriage from work, feeding wire, and fancy goods, trade is fairly active. Indian trade is fairly steady with the north-eastern provinces of the Continuetal markets; France and Spale at pres During July that market only took 21,- exhibit the most vitality as regards the 33 tons of Cleveland pigs, which was a productions of this district.

In the London metal market August oth !

Part, Welsh tin some in lars, Swedish tin Isaackan as none a lars, Staffordshiredin Isaackan, as none tank River, Staffordships (in loss)

Linh
Pag 49 M.B. 1 to b. Charles and the library Welsh fat works)

East Welsh fat works)

East Welsh fat works)

East Welsh fat works)

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Welsh fat works

East Wel

Sheathing and shore TO 0 0 273 0
Plat bottoma 74 0 0 275 0
Tough cake 67 0 0 275 0
Burga or P.C.C. C10 0 29 0 0 Forlish pla, W.D.

tiaglists street finglish god finglish white finglish patent shot panien pig Foglish ingot 47 0 0 0 d n 6 hashish bare tin bereich 47 0 0 d n 6 hospish refined 90 0 0 d n 6 lisues 90 0 0 d n 6 lisues 90 0 d n 6 lisu

TIM PLATER (per box) English (Smanica) ...10 10 0 0 0 0 0

UNITED STATES MARKETS

Pitteburg.

Pig Iron-The market thus far this calendar week has been extremely quiet, some agents not having sold any iron at may be considerably more sold during the remainder of the week than there has been thus far. This is often the ease; Indeed, it appears to be the rule that there is more from sold in the latter than in the first part of the week. It is not probable, however, that the aggregate will be very large. The indications, at any rate, do not point that way. The extreme quietude, notwithstanding the enormous consumption going on, is explained by furnace agents as follows: Consumers, generally speaking, have as much from as they want for present use, and do not care to buy except at rates that have been current for two or three weeks pass, while on the other hand makers, as a rule, will not sell except as as advance, and meny of them have withdrawn their iron from the market.

We are advised of one case where a maker has given a consumer the option of taking a lot of iron at last week's figures if he will take it within the next two days from this writing. If at the end of that time the offer is not socepted the fron will be withdrawn from the market, unless better figures are tenderod. No matter, however, whether business at the agencies is dult this week or lively nort week, the enternous consumption of pig iron still goes on, and the demand must be estimated. It is altogether probable that more ply iron is being melted in Pittsburg at the present time than ever before. Some idea of the amount of pig consumed here in a year may be gained from the fact that in the first balf of the present year the receipts of the same by rail and the Ohlo river amounted to 177,234 tons, or at the rate of 354,000 tons per year, and that the make of the city furnaces in 1480 was 300,000 tons-these two sums making a total of C51,000 tane. It should be taken into consideration, too, that there was not near as great activity at the rolling mills and foundries hero in the first half of the present year as there promises to be in the latter linif. It is probably within bounds to my that fully 700,000 tons of pig fren will be consumed in this market this year. The last sale of neu-

months, while bessemer is stationary at \$27.027 50. No. 1 at \$25 and No. 2 at \$22.50-all 4 menths. Nails-The demand for nails continue to be light compered with that for other i from products, and the manufacturers are somewhat pusaled thereat. They think, however, that the autotitution of wire fencing for board fencing in the West has a great deal to do with it; and this certainly is at least one cause, for the former kind of funcing requires no nails at all, while the latter requires an immense quantity. I'ricos remain as quot-ed last week: \$3 per kog for 10d to 60 days, or 2 per cent, off for cash, and an abatement of 10 cents per ker on car load lota.

perior ore, may still be quoted at \$24, 4

Bleel Ralle-There is no change in the situation since last week. The demand is still enormous, with prices unchanged. For prompt delivery \$60 and upwards is quoted, while \$60 is quoted for next year's delivery.

Hallway Supplies—Prices remain

quoted last week. Spikes, 3c per pound; iplico bars, 2.400; track botts, 3jc-al thirty days.

Steel-The demand for steel continues to be very heavy, and prices have an up-ward tendency, although they are not quotably higher. Steel does not feel the floctuations in the market as much as from and nails. It is usually last to go up and last to come down, and does not rice so high nor fall so low. Priore are very firm at the following questations: Best quality refined cast atcel, 11 to 12 conts per pound, as to quantity purchased; crucible machinery steel, about

THE LONDON MARKET do at 3.05% cents, Beasemer open to act, Beasemer 24 to harth spring, 4.01% cents, and do go do are not of the touchet a boundary of plought black cents. Open hourth return to sold at our utrate block blo

that talls. Are firm at last work square trade to shok and keep out op-

Is still bought by consumerant Stories paragraphed the consequences the consequences to the paragraph to the while So I railway inacline to furnous men are very low but it is established to the still state of the sold and sold of the best sublainable moderant of a purel and of the tops true k and shop prices of coal and see try to the coal and sold of the still still and the idea of the sold of the so pportion of the four time than mered and is in actice demand and action property of the solution of the sol interest to the second continuous for the se taken up about 52 mote. Old car six mouths stocks. A half declaring wheels \$25 a 27 per gross ton

New York. Pig Iron -American In nearly every

is apparently about the same steady from by fancy quotations when there increment of supplies into consumption, more not a self. This was the error but not a great deal in the way of large milited last year. The return of co purchases and absolutely no purely speculative husiness. There may be some grounds for the opinion entertained by some members of the trade that the unfavourable accounts coming from the Scotch and English markets will ulti-mately have no little influence upon the local market, but as yet prices here are dition, and prices are firm at 21 well maintained and not likely to be up. 20 Higher prices are table. settled unless the importations run beyoud the present comparatively full total. At all events, there "ecnis to bo very little probability of extensive amounts of good braids of American pig being left over to offer upon the open market during the remainder of the year, while it is scarcely possible range deliveries that they can accomm that foreign makers will take the risk of sending forward large blocks of even the best brands, so long as there is overy probability that such action would lead to a depreciation in the value of their goods. A lot of 2,000 tons No. 2 X Thomas 's said to have been sold from second hands at about \$21.75, but askie from this the transactions reported are in lots of less than 500 tons. A few luts of good brands of No. 1 X follodry can be secured at \$24, but most holders are making \$24 50/225, while it is oven said that some are refusing tide of the first named price. For No 2 X foundry \$22 seems the bottom price, with \$23 the other extreme, still \$21/622 are now the prices generally named for gray torge of rellable make.

Scotch -The continued free arrivals leave a few lets over which cash buyers are able to pick up from dock at comparatively easy prices. Purchases of round lots for future shipment are also mid to be made occasionally on special terms. When it comes to store lots there is nothing short of firmness noticeable, however, the supply being kept under good control by steady purchases of 100 tons and under. The week's sales, including lots on spot and to arrive, are placed at about \$21 for Egilaton, \$22 50 for Carnbroe, \$22.50 for Glengarnock, \$23.023.50 for Gartsberrie and \$23.50.0 24 for Coltness,

English-It is understood that Middissbrough pig of good brands can be bought in round lots for future shipment at prices about \$50 below the lowest named a week ago. The moderate supply here is held firmly, however, about \$18.50@10 for No. 3 and \$17.50@ 18 for No. 4 proving the very lowest figures that holders will listen to. Dessemer is still quoted at \$24/025, accordlog to brand and delivery, with a very fair demand, and some fair amounts said to have been placed, the total of which is estimated at about 15,000 tons.

Steel Rails-Sales of about 20,000 tons American are reported, about one-half of which it is understood were clased at \$55 at mill. The demand continues more or less active, and the majority of makers are asking \$57 for next year's ing prosperity. The vast undeveloped tral iron smelted from native ove was at deliveries Foreign on the spet are

Iron lialis. To all accounts there is a good demand for American, and a fair amount of sales making, though no im portant individual sales are reported. Prices are quoted irregularly at from aclow as \$45 up to \$50 for heavy section at mill. Foreign are still quoted at \$45 \$50 laid down here, but no large purchases are reported.

Old Rails-Last week's advance seem to have checked the buying somewhat, though a fair number of sales have been effected. It is claimed by seree parties that the market just now is not so buoy. ant in tone as it was four or five days ago, but \$17.50 for tees and \$29.50 for double heads seem to be the lowest prices indiders will quote. Sales of 3,000 ions at the above prices were reported.

Scrap Iron-The supply of good quality wrought scrap is still moderate, and, under a continued good demand, prices hold very firm. Selected yard lots are held at \$30, and it is coubtful if air quality can be bought from stere or to arrive at below \$27@28. About 900 tons are mid to have changed lands

Philadelphia.

(Frem our own Correspondent.) PHILADELPHIA, Augus. 30th.

from is in extraordinary demand, and prices rule firm. Importon are luying and selling vigorously on paper. This mouth clos see up the most prosperous month the iron trade has ever seen, and September promises to bring an increase in the volume of business and at equally Best quality refined cast aton, 11 to 12 centurerative prices. Quotations are as on a capital of £10,655,926), being the conta per pound, as to quantity purifoliows: Pig iron, No. 1 foundry, \$21 full amount available on commercial clusted; crucible machinery steel, about 10 \$25; XX, \$22; Forge irons, \$21 to principles for dividend on capital or for onte, and Bessourer and open hearth \$22; Scotch, \$21 to \$23; English, \$17 a reserve fund,£144,59.

of the market. It is monday to 1884 —

1808 —

1808 —

1808 —

1808 —

1808 —

1808 —

1808 —

1808 —

1808 —

1808 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 —

1809 larger companies have not a top off. grade now to enter on the mark I a are not quoting prices birt or lowher customers They are study or respect the market has ruled just about plethy existing contracts and salt t as described in last week's report. There give an artificial or inflate tally to be weather has permitted a slight local in the output of rolled iron Vale vory fair all last weck at Stat, Se Blooms are very scarce, and er quet above \$70, but the bulk of accept. tracta are booked at \$63 to > 3 bir hills are in their overcrowded.

20 Higher prices are talked of an may be asked in two or three week. Buyers are willing to pay any sike \$ prompt deliveries, but all mills base be sold ahoud at 24 rates, and cannot tuadvantage of the advance until o. orders are cleared up. Mile bare free 60 to 90 days' orders in Land but so at date new buyers. In airminal abaythere is a very active demand at 27 6. angles, 2.3 for beams, 34 for channel. and 3) for tees, and inquiries are comis, in daily for supplies, which denote continuod activity at exceptionally rem. negative prices. Construction from all kinds is in very active defeated, as: some nille are unable to promise plan deliveries before January Others hatrome disengegod capacity all throom the fall. Tank is firm at 3], refined a flange 3. Wrought pipes are active a 60 off, and tubes 40. Steel ralle are fairly active. Enstern transactions were about 45,000, to 50,000 last week, and a \$57 to \$60 A good deal of business goes abroad at \$60 for Southern deliver Iron ralls are \$48, old tore \$18. Bigingote active at \$44. The local fadar tries were never more closely present and prices are firm in all branches Late in the week several large orders for min ing machinery and rolling mill machin were received. ery

Shipbuilding is going on at a greater degree than ever. Every yand is crowd-ed, and work is waiting. Shipping u paying well. The coastwise trade is in-creesing, and domestic commerce with the Bouthern States is steadily improving Terminal facilities are bring per-fected by the construction of piera building of two grain elevators, the extension of milway tracks, etc. The grain shippers held a meeting on Wednesday to discuse the revised form of grain contract imposed by the London Cora Trade Association. The merchants of New York and Baltimore have taken action

Oil exports are increasing. The fleet now loading will sail with 3,399,475 gal-lone this week. Beven yessels cleared last week with 327,882 bashels grain Exports of corn since Jan. 1, 4,967,957 bushels; wheat, 7,270,034 bushels. Oil exports since Jan. 1, 52,280,074, same

time last year, 36,249,092 galions.

It is proposed by McKay, the great contractor, to lease the Beading slipyards and sliops up the Delaware river which have been idle so many years This is one more evidence of the increascoal lands of this company are imprev-\$22.50 per ton, 6 months, and \$22 cash. held at \$63/266, but can be secured at ing in value, and it is probable that this Neutral mill, smelted from Lake Su- \$61/262 here for future shipment. great property, will yet swing clear of all difficulties and become a paying concern.

> There have been 3,330 persons mainted or injured and 127 persons killed, in the streets of London during 1800. Of these, "light outs" are responsible for 1,012 cabe for 800, combiness and one 152. broughame and carriage for 307, heavy carts, wagrons, drays, and vans for 81 but of the 592 accidents by vans, 45 were fatal, whereas of the 1,843 accidents by cabe, only 43 were fatal.

Bespecting the commercial results of the Telegraph Department, the Postmaster General says in his report just lessed :- From the circumstance that many items are included in the annual telegraph expenditure which represent capital outley, it is obvious that the Bri profit resilised in any particular feat does not accurately mosenre the results of the telegraph business for that Year regarded from a commercial point of view. By order of the House of Commone a return is annually laid betore Parliament showing the commercial to suite of the telegraph business for sach year. Although the return for 1880-81 is not yet realy to be presunted, the following figures may be regarded at substantially correct :- Aggregate amoust of capital, including all the anne which in business would be charged to capital secount, £10,685,926; revenue, 1830-51 £1,633 884; expenditure, deducting the items charged to capital, £1,189,42 balance of profit (equal to 4.17 per cent on a capital of £10,655,926), being the

LUMBER TRADE.

se to-tun who are qualified to spenk send a matter-are to be credited. mber is undoubtedly becoming very are and thus fact has been made stal inst mally in the work of deplea bette flames have closed large u. es, while gigentle trees have loon signate by the strangth of another lement, to gradually decay and becomes wire informathe lumbermen had reachof them. Next year England, to which country of course, the great quantry of the trader felled is slipped, will be di-terly notified of the fact that Canada is eren mexhaustible forces by the failure meire se much of the commodity as seed Waite oak is getting very scarce and difficulty is also experienced in obluarny ash and red pies. Rock cim, for ir Quelier market, to be used for shipor purposes, is about thinned out, and dist will soon be an ananown arth ie. which will soon be an unafford article. With the increasing scarcity of timber cases a decrease in prices. With each it set as good as met year. It is hard to be got at, and when obtained is hard treffet priote even lower than last reffe A reduction of ten cents per sectorage red as the result of companwhere n the rates ruling this scance ad those which prevailed during the previous one. Waney sub, hold for suppling purposes in Quebec, is selling st 25 cents to 28 cents per fuot, and shippers in this city contend that there is us money, for them at all events, in such prices. Rock elm per timber has been slipped in Large quantities this sensen from this port at cents to 28 reads per foor, from which prices, it is said, there are no profite ac-roing to the shipper. Prices for waney card timber are a little better than last our, an advance of a few cents per fact ising obtained. Mesers. Platt & Brad-ier, of Hamilton, delivered a large castly of waney ash this season at 25 cents per foot, and this had been contracted for last year. Motwithstanding be growing scarcity of timber, however,

the small quantities received of the higher graces of wood, basides those already mentioned It is asserted that as the best wood is gradually being cut deve the partial clearings thus made strong further and further back from the forte to which they must be conveyed by shipment, and therefore the trouble ud expense of removing it to the lakes prepartionately increased. Booner he saffer either one or the other, many errons engaged in the business now rethey had kitherto passed scornfelly by. A number of people are now rapped in cutting plus who never teached it with an axe before. Again, sat there is now such a good demand in he United States for sawed tumber that ittention has been turned in that direction and to the business created by that article. Furthermore, that as the coun-ity is being gradually cleared, and the tuber being consequently more exposed to the weather, the influences thus reght to bear are effecting the decty of the true, the rapidity of the decay of the regulated by the different degrees of smallingbook passessed by the differ-

the priore are not as high in Liverpool

his year as they were in the same place

terire months ago. This statement will marriy be credited, for obvious reasons.

the explanations have been given for

esk and plac yield quickly. The thipments of timber from this jest have not yet, however, given any is testion of the early sheaten which is fred. They have not only not dimin-abed in extent, but have actually inresed. Up to the present time fully re-helf more timber has been shipped rets Toronto this serson than was shipped from here during the same peried hat year. An idea of the busi-has done may be formed from the folevias Agures, as they represent an apon to the quantity of timber eleped from this pers during the To rat sesses by the prominent morchante throughout the previous:-

in and masta

McLean & htiason, Weston, 200,000

Burton Bres. Barrie, 100,000 tect. Cook Bros., Toronto, 116,000 foot. O F Wright, Barrie, 150,000 feet. Kranker Bree, Toronto, 250,000 feet

I Latimer, Toronto, 280,000 feet. These figures added together make a rmed total of 1,125,000 feet of timber dipped from Toronte during this season

A large increase in the receipts and shipments of lumber during this season op to date, as compared with last year, is reported. This year the cut of timber has been rather short, but prices are femor than formerly, with an upward tendency, the present average heing about \$13 per thousand. It is estimated that the per thousand.

each value of \$6,000,000. Stock stock views. From all our advices we doubt however, will being from \$14 to \$15 per whether any standard or destrable attiff

send last longer than ten or twiles limo at 120,000,0000; an advance of atout 1 ning from \$1.50 to \$20 by the sargo at an indicate the first things of the sargo at the sargo 25 monden over the figures reconied for Chicago the Mississippi valley men can caramite of promitent timbur more the whole of last year difficures these offered to keep their under garments on figures do not rope-sent the actual ships The atresus are well nigh cleared of legs ments from part, for a great part of the and the crop delivered at the mills. A lumber has been retained in Toronto, few small lots retueld himse up and efsuce and this fact has been made and ninet still be included in the biast to got them out and to meas framework parameters. Within the present year, either year. Within the present year, stander from and hurricanes have any of a connuclation on the ruleman the connuclation on the ruleman the act any price. St. Longs shipments would quantity of lumber passing through the ten millions per week, which is about city this rese would have been much the maximum capacity of her california greater. The To onto & Niplasing rail- with their present supposest. Minneaway has been unlergoing many alteraway has been undergoing many alterations recently, and, therefore, could not far facilities which growth hinders trails
devote that attention to the conveyance.

81. I'aul dealers report a large accumuof lumber which the dealers therein lation of orders which cannot be filled, would have desired. For the same res- and numerious inquires, especially from son the shipments by the Northern ralls the Southwest. The lumber line ablpway have not seen as large as they other men's exceed three million feet per wise would have heer. For asifish week, which takes all the cars the readure the Toronto, Grey & Bruce Rails can muster. The wheat of the Northway Company has given the right of way to wnode in preference to lumber, and then the troubles of the fumberman will the Grand Trink railway has its bands multiply indefinitely, as the grain will full of general freight. During the last take the care week, however, lumber has been coming down pretty rapidity. A great quantity of imber is also "hung up," became there is not sufficient water in the sirem to carry it down. Some authorities say there is as much as twenty-five to thirty per cout of the logs cut since last year fing untereded in this manner, and for the reason above stated, but others state that not more than ten per cent. of the cut is so situated, and that only about

20,000,000 (cet is at present living up. Probably many will be interested in learning the amount headled during this senson by each of the principal whole-sale merchants of Toronto. Mr S. S. Mutton has since the lat of January up to date shippoisbout 4,000,000% of frasber, or about one-third more than du ing the same time last year. Keeers Mo-Intosh & Co. within the same period shipped 7,500,000 feet, and 18,000,000 feet passed through the bands of Mr. S. C. Kanady. Donnogh, McCool & Oliver have handled about 11,000,000 feet since the let January, which is already shead of the husiness done by the same firm during the whole of last year, when 10,. \$00,000 feet of lumber were shipped. In 1879 they shipped 11.500,000 feet, but during the previous year the figure reached only 1,800,000 Mr. D. S. Briggs has already shipped 4,000,000 feet, and will probably have to announce by 1.35 the quotient will be the actual double shearing arranged for each pared a.th last year, when only 4,000, in had been always a feet only 4,000, but had been always a feet only 4,000, the had been always a feet only 4,000, the feet been always a feet only 4,000, the feet only 000 ket had been shipped when the season closed. A proruness firm has area -probably 5,000,000 more would have passed through their hands if the re-quired number of ours could have been procured. The mile belonging to this firm have a combined capacity of \$7,000,000 feet per annum J. & F. N. Tenant have handled about 20,000,000 feet so far this senson, and Thempson, Smith & Co. about the same quantity. The lumber busines has been greatly injured this year by the number of mills destroyed by fire. More may mills were burned that month than in any one mouth for the last ten years. The good prices however, are likely to be mulntained, or aven rise higher; but there is no better demand for the poorer grades of lumber than formerly. The lumber is gradually deteriorating from some cause or other not yet explained, and as a whole is becoming courser.

A Roston paper says that a short trip WYDEDSOR HOTEL, NEW CASTLE, L. D. among the lumbermou fully substantiates W. DAYEAR, Proprietor. New house, and the sociaments made a few days since read the weather well, but rock alm, that the Eastern ferniture manufacturers are seriously troubled at the scaroity of black walnut timber, and that the whole supply of the United States has now come entirely inadequate to the d mand. The difficulty of obtaining this wood, which is now so popular, is so to look for a supply? Within the last year he price has increased twenty-five per cent, but even at such advanced figures it is simpet impossible to scoure the needed stock. A few years since a man would go west and purchase 500,000 fast of one dealer, but how he must journey from town to town, picking up a iew thousand foot wherever he may chance to find any for sale, and accounting himself lucky If he obtains the desired amount at almost any cost There are dealers always ready to pounce down on any let of walnut that a farmer may wish to dispose of and, as one of onr dealers said, "if you get your eye on a few bundred feet you must sit down on it immediately, and stay there until you clinch the hurgain, for if you leave it for an instant some one elee will take advantage of your absence, and when you return you will to a certainty find it

The borns continues says the Missiesippi Lumberman, in the lumber trade, with no signs of abalement or sympto enont \$13 per thousand. It is estimated of weakness, outside of Chicago, either the total quantity of lumber out this in the demand or values. At all the The in Outselo alone will amount to giver markets there is a necess connection and prospects which beartnessed, which, calculated in the situation and prospects which Department of Public Works, (\$12 per thousand, would represent a half inclines the trude to another ad-

thousand, white for the lowest grades can be bought in any quantity at a distributed pleasing to hear that t'ansis.

The per thousand feet is poid. The companies of the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$5 to \$6 per thousand feet, and the higher grades \$6 to \$10 per thousand feet, and all lumber, as one excently expenses to keest is being mighly depicted to any the present and that the aupply, with the quantity of lumber handled at this per weeks ago at the author, and its newsored that two years ago, the prices for the higher graded \$6 to \$10 per per weeks ago at the author, and its newsored that two quantity of lumber handled at this per weeks ago at the author, and its newsored that two years will not get done taking about the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' before Chismas, but the 'great least' but the 'great least' but the 'great least' but the 'great least' but the 'great least' but the 'great least' but the 'great least' but the thousand, while for the fewest grades can be bought to any quanter at a diswest will some commence moving, and

RELATIVE STRENGTH OF WOOD

Kolwithstanding the common use of wood for plus or freenalls, no experiments that I know of (erites Mr J. C. Trautmine, CB, to the Wood Worker) except one or two is dated ones, and they imperfect, have been tried for determining the extent of its reliability for this nurpose. With a view to sepulying this left fency tu some mouse, I have tocently turted several American woods in the shape of cylindrical pine, 64 of an inch (ursulf inch) in diameter. I used one of Ri-bi's well known and accurate testing machines, in connection with an iron helder, and through a cylindrical hole in which the closely fitting wooden pin to be tested was placed.

Two speelmens of each were tried. Where their differences did not exceed 10 per cent, the mean is given. Greater difference must of course be of frequent occurrence, even in good sound speci-mens. All the specimens were fairly arasoned and without defects. The caniral preces slicered off were i incli long The single circular area of each pin was 832 of a a ware took; and, since 844 by Los equals one squere inch, it follows that if the result in the table to divided

The following table gives the result for pounds per square incli of total samued

ilesek Hirek Codar, whi	* **** * * * * * * * * * * * * * * * *	1.202.0
Coder, Gest Cliefty Chartest	isal Am.	
G 📆	**************************************	
Maple	9.4	
MR. Hve Mac. white	· • · • • • • • • • • • • • • • • • • •	
20	TOTT TOOLOGES	
Walast, Me	iek .	

DANWEL HOUSE, COBOURG. This hotel I is in the heartre of the town, pext to Twen Ifall and slowe as Peat Office. Terms \$1 per day. Commedicas Sample Series. [4]

DOMENTON

York Street, Dundan W. R. GRAY, Proprietor.

MANUFACTURE EVERY BROCKIPTION OF Card Clothing and Weellen Mill Supulies.



NOTICE TO CONTRACTORS.

CEALED TENDERS addressed to the under-greed, and endersed. "Radar for Past Office, etc., Belleville, Onl., will be received at this affect until 12 UJ 3DAY; the Shed day of Separaber next, includively for the cree-ting of Past Office, etc., at Belleville, Ont., Place and specifications can be seen at the Department of Pastin Works, Ottawa, at the Dansen Henny, Spirrille, and at the office of R. G. Windower, Eug., Architect, Toronto, on and after Menday, the lab September. Traders must be made on the printed forms

Tendage must so made on the printed forms anything.

Such conday must be accompanied by an accorded heatt about, pade paryable to the sector of the Hindest of Paris Works, equal to five pur april of the amount of the leader, which will be forther according to the property of the amount of the leader, which will be forthered to the sector to the contract when collect upon to do so, or if he fall he companies the work sequenced for. If the tooker is not accompany, the chaque withe setters of the sector

The Department will not be bound to as the lowest or any engage. By Order, M. REVEIA.



NOTICE TO CONTRACTORS.

CRALED TENSIFERS, addressed to the unable derigned, and endorsed. "Inners for list times are let Carbarness, Out., will be previous at this office until TIPE IA. the 2th day of Replember next instudies), for the are time of fust 1990, see, at M. Carbarnes Out.

The are time of fust region, ere, as M. Catharines, Ont. Misses and specifications can be seen at the Repartment of Static Morks, Girano, or the Repartment of Static Morks, Girano, or the Sustant Biose, M. Catharines, and at the other of R. Windows, Ear, Architect, Turnuto, on and after kinds, the did constraints.

tember. Tenders must be made on the printed forms

mindled

Rach tender must be accompanied by an hach tender must be accompanied by the series and the best charge, saule jugable in the integral habe beings and jugable in the integrable the highest of Public Works, specific are per cease of the amount of the tender, which will be infigired it the party and a content into a coursed when called the tender, which will be forfelted it the party decline to enter into a contract when called upon to do no or it he fail to complete the math contracted for. It the tender is not negerical his cheened with the cuttract.

The lengthment will be returned.

The lengthment will not be bound to accept the lowest or any tender.

By moler,

Net ENNIS.

necretary. Department of Pablic Works, } Ottown, Mrs August, 1881. (80.3)

PORTER & SAVAGE, TANNERS

AND MANEFACTERIAS OF

Lkather Delting, Fire excine Hosk, Harnyab, Moccasine, Lack, Russet and

Office and Manufactory:

436 Visitation St., Montrepl

(GUELPH SEWING MACHINE CO.)

WARTFACTURBS OF

Apporus Jewing Restines

APPLE PARERS MOO BRATBIN. BAD IRONS

BRATER LAWN HOWERS, PRUNING ENIVES, ETC.,

Send for Price List and Quotatious.

GUELPH, ORT., CANADA

THOMAS WILSON, Manufactures of STATIONARY and FORTABLE

Steam Engines, BOILERS AND MACHINERY of every description.

COTTON NILL CALENDERS HOS-TERY STEAM PRESSES AND Propeller wheels, all sizes

METAL & RUBBER STAMPS

Monyon-Stawart Mfg. Cs. Manufacturers of the largest variety of luting, Office, Railway and findings Stanges, Seals, etc., in Canada, Awarded Bronto Media at Torcato Indiarrist Exhibition, 1863. Office and Manufactury

38 RING STREET WEST, TORONTO.

NAPANEE

BLANKET MILLS

Bpecial to the Trade: Crastastiy on hepd

OAK SOLE LEATHERS. WHITE BLANKETS, SHANTY BLANKETS, HORSE BLANKETS

ETC. ETC., ETC.

HAVING SPECIAL FACILITIES For the manufacture of

Avery Beseriptien et Blanket,

I am preserved to offer at a VERY LOW FIGURE.

Arthur Toomey,

NAPANDE.

Excelsior

Acknowledged to be the most serviceable Organ in the market.

ALL HONORS TAKEN WHEREVER SHOWN

SEND FOR NEW ILLUSTRATED CATALOGUE AND PRICE LISTS.

DANIEL BELL SONS & Co.

Manufacturers to the Trade.

56 to 64 Bolton St., Toronto.

CARD CLOTHING WORKS, P.S.-NO BRANCH FACTORY AT GUELPH OR ELSE. 100-001

CANADA

Kardisized Bisis Ports HAMILTON, ONT.

MARRIE AND MARRIEIZED SLATE MANTELEL

J. M. DURWARD





R. H. Smith & Co.

General to J. FLINT

Sele Manufacturers in the Desciaton of Canada of the

'SIMONDS' SAWS

at. Catharines, Ont.

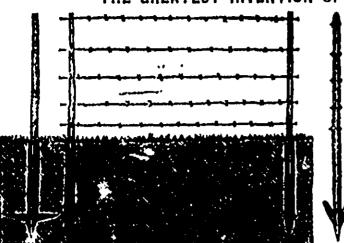
T E LARGEST SAW WORKS IN CAMADA

COUGHLIN'S

PATENT FROST AND FIRE PROOF

PAST TRAN BBNOB

THE GREATEST INVENTION OF THE AGE.



For Barbol or other W BEST, CHEAPEST AND

FENCE POST ever invented or used, doing away with the diagram of just holes, etc.

MOST DURABLE

I will build Barbed Wie Lences with the Patcut Iron Post at a

VERY LOW FIGURE. For particulars send for circu-

l'arties destrous of becoming Local Agents, or obtaining county rights, please suply at

202

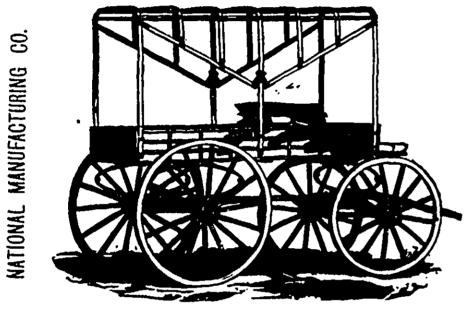
SPARKS

STREET,

OTTAWA.

P. COUGHLIN, PRESCOTT, ONT;

CELEBRATED



NOVELTY

TOP. WAGGON

SEND FOR ILLUSTRATED CATALOGUE.

McCOLL

TORONTO,

Were awarded the FIRST PRIZE for their LARDINE and other

MACHINE

At the great Industrial Fair, Toronto, 1830, and

Four First Prizes and Gold Medal

At the Provincial Exhibition, Hamilton, 1880.

260 Their Lardine Machine Oil was used, by authority of the Association, on all the machinery at both Fairs during the four weeks, and proved a very superior oil.

Oshawa Cabinet Company

FURNITURE MANUFACTURERS

OSHAWA.

Highest Awards and Two Silver Medals at Dominion and Torontol Exhibitions, 1879 and 1880.

RETAIL WAREROOMS:

97 YONGE ST., TORONTO, ≥ 447 & 449 NOTRE DAME ST., MONTREAL.

GALT FOUNDRY & MACHINE SHOPS

COWAN & Co.

It a Court by a A Manufactures of a D. Acad Worth Working Macini VLRY, with ad the larger four recements,

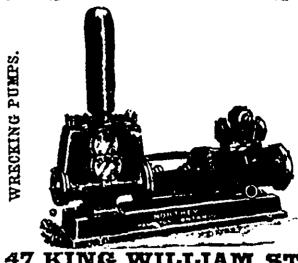
Steam Engines and Boilers,

PORTABLE AND STATIONARY.

-8- 0. () C. OLVING BUD MOVEDING MACHINE stands unrecalled, and has never yet been tested in 114 20

NORTHEY'S STEAM PUMP

CIRCULATING PUMP TEAM FIRE PUMP



OIL

SEND FOR CIRCULAR.

HAMILTON, ONTARIO

Emery

COMPANY CLIMITETO HAMILTON, CANADA.

MANUFACTURERS

Emery Wheels

FOUNDRIES, MACHINE SHOPS, SAW MILLS & PLANING MILLS.

Send for Circular,

Emery Wheel

ALSO

MANUFACTURERS .

Illustrated Price List sent on Application

ymiting darb'

From the celebrated manufactory of MR. K. OEHLER, AT OFFENBACH Л. М., GERMANY.

The Trade supplied at MANUFACTURER'S PRICES through the Agency in Canada. Emil Thourst & Co.,

MONTREAL.

STENCIL PLATES.

STEEL STANPS for marking tools, etc., STAMPS AND SEALS of every description.

Pritchard & Mingard, SUARKS ST., OTTAWA

BESO FOR ESTIMATE.

GALT, Ont.,

Solo proprietors of

THE SECRET CHEMICAL PROCESS OF TEMPERING. which toughers and refines the steel.



CIRCULAR SAWS, CROSS-CUT SAWS AND HAND SAWS.

Are WALRANTED separationary making the maty (Estatismo, Is, 1)

THE LARGEST SAW MANUFACTURERS IN CAMADA

DIRIORATED BONGS KEEP Biological States and

B GREENING & Co.

Examilton, Canada.

FOR SALE.

STOVE PATTERN

Filted to Mould Boards in good creen

Comprising fifty well known stores, all organibany patterns. Also,

Teakettles & Hollowware Patter AND IRON FLASKS.

The above will be sold at a large's by Ca or just its as capital in a new concern For further information, address

H. R. IVES & CO.,



THE TUPPER GRATE BAR.

Timoughly tested and approved. One self-several of any other kind, and save a live i suel. For steamboats, trationary builts, etc.

H. R. IVES & CO.

Boundorn & Hardonia Manufacturers On a 1 3

DOMINION

Till large stond most complete loders Highest honogeneser imacled to any M.

ger-Medal and Distributed Central of the ro-Meduland Burlama at School, V. . rendidd Medal at Provincial Evid 1994 re-Highest award at Industrial I'vict.

We are now named clotten Seed. Correspondence of a rel No. 1007

ADDD: **

Dominion Organ Compan

BOWMANVILLE, ONTARIO.